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OM protein - protein search, using sw model

Run on: February 20, 2004, 13:32:18 ; Search time 29.3726 Seconds
(without alignments)
1078.927 Million cell updates/sec

Title: US-09-913-955A-1

Perfect score: 3958

Sequence: 1 MEATRGSSVERGKANKRSTR.....AFNCPNPTMKRGMSCLRW 749

Scoring table: BLOSUM62

Gapop 10.0, Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents, AA:*

- 1: /cgn2_6/ptodata/1/aa/5A.COMB.pep:*
- 2: /cgn2_6/ptodata/1/aa/5B.COMB.pep:*
- 3: /cgn2_6/ptodata/1/aa/6A.COMB.pep:*
- 4: /cgn2_6/ptodata/1/aa/6B.COMB.pep:*
- 5: /cgn2_6/ptodata/1/aa/PCTUS.COMB.pep:*
- 6: /cgn2_6/ptodata/1/aa/backfilest.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1373	34.7	742	4	US-09-704-611-2
2	1368.5	34.6	765	4	US-09-704-611-1
3	1257	31.8	703	3	US-08-646-273-25
4	1257	31.8	753	3	US-08-646-273-36
5	1248.5	31.5	758	1	US-08-289-112-2
6	1241.5	31.4	708	3	US-08-646-273-23
7	1241.5	31.4	754	3	US-08-646-273-30
8	1222.5	30.9	765	4	US-09-819-989-4
9	1221	30.8	811	4	US-09-819-989-2
10	1221	30.8	883	4	US-09-657-373-4
11	1184	29.9	787	1	US-08-574-763-2
12	983.5	24.8	775	3	US-09-305-640-2
13	963.5	24.3	567	3	US-08-646-273-19
14	790	20.0	690	4	US-09-328-352-5182
15	527.5	12.3	189	3	US-08-646-273-14
16	501	12.7	590	4	US-09-107-532A-4682
17	470.5	11.9	632	4	US-09-634-238-249
18	246	6.2	181	3	US-09-305-640-4
19	119	3.0	1016	4	US-09-625-972-24
20	116	2.9	725	2	US-08-813-940-25
21	114.5	2.9	990	2	US-08-393-625-20
22	114.5	2.9	990	2	US-08-466-961A-20
23	114.5	2.9	990	2	US-08-466-961B-15
24	112	2.8	722	4	US-09-253-991A-17407
25	111.5	2.8	1056	4	US-09-394-272-1
26	108	2.7	681	2	US-08-655-345-4
27	108	2.7	681	3	US-09-183-275-4

28	108	2.7	681	5	PCT-US96-08407-4	Sequence 4, Appl
29	108	2.7	698	4	US-09-727-169-4	Sequence 4, Appl
30	108	2.7	698	4	US-09-579-766A-4	Sequence 4, Appl
31	108	2.7	698	4	US-09-726-968-4	Sequence 4, Appl
32	108	2.7	807	2	US-08-655-345-2	Sequence 2, Appl
33	108	2.7	807	2	US-09-183-275-2	Sequence 2, Appl
34	108	2.7	807	5	PCT-US96-08407-2	Sequence 2, Appl
35	108	2.7	824	4	US-09-727-169-2	Sequence 2, Appl
36	108	2.7	824	4	US-09-579-766A-2	Sequence 2, Appl
37	108	2.7	824	4	US-09-726-968-2	Sequence 2, Appl
38	106.5	2.7	803	1	US-08-062-368-2	Sequence 2, Appl
39	106	2.7	984	4	US-09-328-352-6926	Sequence 6926, Ap
40	105.5	2.7	548	4	US-09-601-091-2	Sequence 2, Appl
41	105	2.7	479	1	US-08-484-105-10	Sequence 10, Appl
42	105	2.7	479	1	US-08-484-106-10	Sequence 10, Appl
43	104.5	2.6	2662	4	US-09-595-684B-31	Sequence 31, Appl
44	103.5	2.6	548	4	US-09-601-091-4	Sequence 4, Appl
45	103.5	2.6	548	4	US-09-398-395A-52	Sequence 52, Appl

ALIGNMENTS

RESULT 1
US-09-704-611-2
Sequence 2, Application US/09704611
Patent No. 6548284
GENERAL INFORMATION:
APPLICANT: JCR Pharmaceuticals Co., Ltd.
TITLE OF INVENTION: Membrane-bound Metalloprotease and Soluble Secreted Form Thereof
FILE REFERENCE: GP30
CURRENT APPLICATION NUMBER: US/09/704,611
CURRENT FILING DATE: 2000-11-03
NUMBER OF SEQ ID NOS: 9
SEQ ID NO 2
LENGTH: 742
TYPE: PRT
ORGANISM: Mus musculus
US-09-704-611-2

Query Match 34.7%; Score 1373; DB 4; Length 742;

Best Local Similarity 38.7%; Pred. No. 2.8e-126;
Matches 290; Conservative 149; Mismatches 267; Indels 44; Gaps 17;

QY	18	GTRIALVTVGGTLVLTGLTFLVSGQLSLQAKQECLEKAAALISKNTLSVDC	77
DB	19	GLMVLILLIGAVTLGV---FYSIALRDSISKSDICTPSCVIAARILEMNDOSRNC	75
QY	78	DNFFRACDQWISNNPIPEDMSYGYFWLRHNVDLKLELEKTSRRDTEATOKAKI	137
DB	76	ENFYQACGQWLRHHVLPETNSRYSVFDLRDELVLKGVLEDSIQHR--PAVERAKT	133
QY	138	LYSSCNNAKEAKADPLHLIRHSPFRWPVLESNGEGVWSER--KFSLLQTLATF	194
DB	134	LYSSCNQGVTEKRESEPLSLVTK--WGGMPVALDK-----MNETMGLKWELEQLAVL	186
QY	195	RQGYSSVTRILVSPDDKASNEHLIKDQATLSLAVRDYLDNSTEAKSYDALYKFW	254
DB	187	NSQFNRRVLIIDFLFIMWDDNSRRHYLYIDQFLGMSFRSYQEODNNRH--VKAPPEFT	245
QY	255	DTFVL-----LGANSSRAHDMKSVLRLEIKIAIMIPHERNTS--EAMYNKNTISELSA	307
DB	246	SVATMLRKQNTLSKESAMREMAVLEHETLAAVYQGRHVTALYHMDLMELOE	305
QY	308	M--IPQFDWLGYIKV---IDRLYPHLKDISPSENVVVPQYFDLFRILGSRKTI	362
DB	306	RFGIKGFNMTLFIQNTLSSEVVELF-----PDESVVYGYIPYENLEDIIDSARFM	358
QY	363	ANTLVWRMYRSRPNLSRRFQRYRLMEFSRVIGTTLTPQMDKCNVFISALPYVVGKWF	422
DB	359	QNTLVKRLVLDRLGSLQGFKAARDYRKALGTTVEVRMRECVSYVNSNNEASVGLSY	418
QY	423	VDVYFQEDKKEMBEILVEGVNAFLIDMLEKENEMWDAGTKRKAKKAAVLAQVGPFT	482

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Db      : 419 IKAFSKDSKSTRELIEKRSVFNLDLBN WMDESKKQAQEKAMIRKQIGPDI 477
        : 483 M--NDTHVEDLKAIFSEADYFQNVLTQTRKYLQSDPFWLKAQVPTWPTTQNAF 540
        : 478 LEENNGHLEDEYSSLTFEYEDLYFENGQONKNNQAQSLKRLREKPDQNMIIIGAAVNAF 537
Qy      : 541 YSASTQIRPAGELQPFPMGTREYPRSLSYGAIQVIGHEFHGFDNNKRYDKNGND 600
        : 538 YSNRQIVPAGILQPPF-SKDQPSLFGSIGVIGHEITHGFDNNKRYDKNGND 596
Db      : 601 PMWSTSEKFEKTKCMINQYSNYYWKA-GLNVKQKTLGENADNGALBEAFAYK 659
        : 597 DMWNSFARHFOQSQCMIIYQGNFSEWELADNQNANGFSLGENIADNGVQAAYAYR 656
Qy      : 660 WINDRQGLEBPLPGITFTNNOLPFLSYAHVRCNSYRPAAREVOYQIGASHPORVNG 719
        : 657 WLD--GGKQRLPGLNTYLAQLFINTAQWCGSYRPEFAVQSIKTDVHSLKRYLG 713
Db      : 720 AINSSEFOKAFNCPNSTNNGMDSCLW 749
        : 714 SLONLPGFSEAFHCPRGSPWH-PMKRCRIW 742

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RESULT 2

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US-09-704-611-1
; Sequence 1, Application US/09704611
; Patent No. 6548284
; GENERAL INFORMATION:
; APPLICANT: JCR Pharmaceuticals Co., Ltd.
; TITLE OF INVENTION: Membrane-bound Metalloprotease and Soluble Secreted Form There
; FILE REFERENCE: GP30
; CURRENT APPLICATION NUMBER: US/09/704,611
; CURRENT FILING DATE: 2000-11-03
; NUMBER OF SEQ ID NOS: 9
; SEQ ID NO 1
; LENGTH: 765
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-704-611-1

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Query Match      34.6%; Score 1368.5; DB 4; Length 765;
Best Local Similarity 38.7%; Pred. No. 8,3e-126;
Matches 294; Conservative 148; Mismatches 267; Indels 51; Gaps 18;

Qy      : 18 GTSLAVF--VGGTIVGTLF-----LVSGLLSLQAGQYCLKBECEAAAIL 67
        : 29 GAIVTLGVFSGIQPLTSLHFSWDEKTVKRLRDSLSKSDICTPSCVIAARIL 88
Db      : 68 SKVNLVDPDNEFRPACDGMISNPIPEDMPSYGVYPMLRHNVDLKLEKISRRL 127
        : 89 ENNDQSNPCENFYQACGWLRRHVLPETNSRYVFDLRDELAVILKGVLEDSTQHR 148
Qy      : 128 DTEALQAKTLSSCMNEKAIEKADAKPLHLIRHSPRPVLESIGEGVMSR--K 184
        : 149 --PVEAKTLSSCMNQSVIEKRDSEPLSLVK-WVGQPVALDK-----MNETMGLK 199
Db      : 185 FSLQTLATFRGOVSNVFLRLVYSPDKASNEHILKLDQATLSLAVREDYLDNSTEAS 244
        : 200 WELEKQLAVNSQNRKRVLLDLFIWDDQNSRHVYIDPQLGMSREYVFEQDNHKL 258
Qy      : 245 YRDALYFQWDTAVL-----LGANSRAHDKSVLRLEIKAEIMIHENRTS--EANY 297
        : 259 VRKAYPEFMTSVAMLRKDONLSKESAMVRENAEVLLETHLANAVQEKRHDTALY 318
Db      : 298 NKANISLSAM--IPQDMVGYIKV--IDTRLYPHLKDISSENVVAVVPQYFDLFR 352
        : 319 HRMDLWELQERFGLKGNWTLFIQNVLSVVELF-----PDEEVVYGIPIYENLMD 371
Qy      : 353 ILGSEKKTANTLVAMMYSRIPNLSRFQYKMLESRVIOGTTTLLPQMKCVAFIS 412
        : 372 IIDSYSARTQNTLVWLVLDRIQSLQRFKEARVDYRKALYGTIVVEVWRECVSYNS 431

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Qy      : 413 ALFVVGKMFVDYVFOEDKCMMELVGYRNAFIDMLEKENEMDAGTRKAKERAV 472
        : 432 MNSAVOSLYIKAFSDKSTRELIEKRSVFNLDLBN WMDESKKQAQEKAMNI 490
Db      : 473 LAKVPEFIM--NDTHVEDLKAIFSEADYFQNVLTQTRKYLQSDPFWLKAQVPTW 530
        : 491 REQIGDPDYILEDNNKHLDEYSSLTFEYEDLYFENGQONKNNQAQSLKRLREKPDQNM 550
Qy      : 531 FTFPTNAPFASASTNQIRPAGELQPFPMGTREYPRSLSYGAIQVIGHEFHGFDNNG 590
        : 551 IIGAAVNAFSPRNVIVPAGILQPPF-SKDQPSLFGSIGVIGHEITHGFDNNG 609
Db      : 591 RYDKNGNLDPMWSTSEKFEKTKCMINQYSNYYWKA-GLNVKQKTLGENIADNGG 649
        : 610 RNFENGNMMDWNSFARHFOQSQCMIIYQGNFSEWELADNQNANGFSLGENIADNGG 669
Qy      : 650 LREAFRAKWINDRQGLEBPLPGITFTNNOLPFLSYAHVRCNSYRPAAREVOYIGA 709
        : 670 VRQAKVILWLD--GGKQRLPGLNTYLAQLFINTAQWCGSYRPEFAVQSIKTDV 726
Db      : 710 HSPPOFRVNGAISNSEFOKAFNCPNSTNNGMDSCLW 749
        : 727 HSPKRYVLSGLQVLPGFSEAFHCPRGSPWH-PMKRCRIW 765

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RESULT 3

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US-08-646-273-25
; Sequence 25, Application US/08646273
; Patent No. 606502
; GENERAL INFORMATION:
; APPLICANT: Kroeger, Burkhard, Seuberger, Harald, Meyer, Thomas, Schmidt,
; TITLE OF INVENTION: Martin, Jacob, Elard, Ofter, Rainer, Subkowki, Thomas, Hiltner, Heinz.
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESS: Kell & Weinlauf
; STREET: 1101 Connecticut Avenue
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 inch, 1.4 MB storage
; COMPUTER: IBM AT-compatible, 80486 processor
; OPERATING SYSTEM: MS-DOS version 6.0
; SOFTWARE: WordPerfect version 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/646,273
; FILING DATE: 16-NOV-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP94/03706
; FILING DATE: 11-NOV-1994
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 703 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-646-273-25

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Query Match      31.8%; Score 1257; DB 3; Length 703;
Best Local Similarity 37.6%; Pred. No. 7.4e-115;
Matches 281; Conservative 126; Mismatches 276; Indels 64; Gaps 21;

Qy      : 21 IALVVGGLTIVGTLIFVSGLLSLQAGQYCLKBECEAAAILSKVNLVDPDNEF 80
        : 3 VLVVVL-----LAAGLVACIALAGIQYGRSPVCLSAQCVSYNSIISMDPVDPCHEF 58
Db      : 81 FRPACDGMISNPIPEDMPSYGVYPMLRHNVDLKLEKISRRLDTEALQAKTLSS 140
        : 59 FSYACGGIKANFPVDPDHSRGTFNSLMENQALIKHLENSTA--SVSEAKRAQVYTR 116

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0Y 141 SOMNKALEKADAKXLLHLIRNSPFPMVPLSNIIGEGWSEKSEKSLQTLAFRQYXN 200
0Y 117 AOMNTRLEELRAKPELMEIERLG-GMN-----TGMKONFO-DTLQVVTARHT 166
0Y 201 SVFRLVYSPDDKASNEHILKLDQATLSAVREDYLDNSTEAKSYEDALYKFWDTAVLL 260
0Y 167 SPFFVYVSADSKNSNSNVIOYQDGLGJPSRDYLT-NKTEKRYLTGLYLVWVQJLKL 225
0Y 261 GANSRA-EHDKSVYRLKIKIAEIMI PHENRSEAM-VNKNMISELSAMIPQDMGYI 318
0Y 226 GGDSEALRPPQMOQILDFTALANITTPQKRDEELIHKVAAEQTLAPINLWPF- 284
0Y 319 KKVIDRLYPHLKDISPSENVVVRVQYFKDLFRLLIGSERKKTIANLYVWRVYSRIPNL 378
0Y 285 --LNTIFYP--VEINESPIVYDKEYLEQISTLINTDRCLINNYMIMNLVRKTSFLL 339
0Y 379 SRFPQYMLFEFRVIGCT-TTLLPQWDKVNFIESALPVYGMFVYDVYFOEDKEMEE 437
0Y 340 DQRFADADEKFEWVGTYKTCCLPRWKFVSDTENNLGALGMPVKAFTPAEDSKSIATE 399
0Y 438 LVEGYRNAFIDMLEKENEMMDAGTKAKAKAKAARAVLAKYEPFIM-----NDTEV 488
0Y 400 IILEIKKAFESL-STLKMDDETRKSAEKADAINMIGYPIFINDPELKDVFYDYLTA 458
0Y 489 NEDLKATFSEADYIGNVLOTRKYLQSDPFM-----LRKAVPKTEWFINPTTNAFIS 542
0Y 459 VPDL-----YENAMRF-----FNFSSRWVTADOLRKAPNRQWMSPTPMVAVYS 503
0Y 543 ASTNOIRFPAGELQKPFWEGETEYPRSLSYGALGVIYGEHFTGPDNNNGRYDNGNLDPW 602
0Y 504 PTKNEIVPAGILQAPFYTRSS-KPALNCGIGVGVGHLLTHAFDQGHREYDQNLRPW 562
0Y 603 WSTEREKPKETKCMINQSYNYTWKKAAGLANKGKRTLGENTADNGLEALFAFYKWIN 662
0Y 563 WKNSSVZAFKROTECMVEQYSNY--SVNBPVNGRITLGENIADNGLRAAYAYQNVW- 619
0Y 663 DRQGLEBPLLEGITFTNNQLPFLSYAHYRCNSYREARAEVOIQIAHSPPOPRVNGAIS 722
0Y 620 --KKNABHS-LPTLGLTNNQLPFLGPAQWCSVTRTESSHGLITTPHSPSRIVIGSL 677
0Y 723 NSEEPQKAFNCPNSTMNGMDSRLM 749
0Y 678 NSKEPSEHFRCPGSPMN-PPHKCEWV 703

RESULT 4
US-08-646-273-36
: Sequence 36, Application US/08646273
: Patent No. 606502
: GENERAL INFORMATION:
: APPLICANT: Kroeger, Burkhard, Seulberger, Harald, Meyer, Thomas, Schmidt,
: APPLICANT: Martin, Jacob, Elard, Otfar, Rainer, Subkowski, Thomas, Hille, Heinz
: TITLE OF INVENTION: Endothelin Converting Enzyme (ECE).
: NUMBER OF SEQUENCES: 36
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Kell & Weinlauf
: STREET: 1101 Connecticut Avenue
: CITY: Washington
: STATE: D.C.
: COUNTRY: USA
: ZIP: 20036
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Diskette, 3.5 inch, 1.4 Mb storage
: COMPUTER: IBM AT-compatible, 80486 processor
: OPERATING SYSTEM: MS-DOS version 6.0
: SOFTWARE: Wordperfect version 5.1
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/646,273
: FILING DATE: 16-NOV-1994
: CLASSIFICATION: 435
: PRIOR APPLICATION NUMBER: PCT/EP94/03706

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; FILING DATE: 11-NOV-1994
; INFORMATION FOR SEQ ID NO: 36:
; SEQUENCE CHARACTERISTICS:
;     LENGTH: 753 amino acids
;     TYPE: amino acid
;     TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-646-273-36

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Query Match	31.8%	Score 1257	DB 3	Length 753
Best Local Similarity	37.6%	Pred. No. 8.3e-115		
Matches 261	Conservative 126	Mismatches 276	Indels 64	Gaps 21

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OY      21  TALVVFVGGTVLGTITLIFVSGGLSLQAKQVCLKQCECEAAALISKVLSTVPCDNE      80
Db      53  VLVVVL-----LAAVLVACLAAALGIQYQTRSPSVCLSAQCVSTSLSSMDPTVDPCHDF      108
OY      81  FRPACDGMISNNPIEDMPSYGYPTMLHNVDLKLKEILLKXSIRRDTEAIQAKILYS      140
Db      109  FSYACGMIXANPPDGDHSGWGTSTNMEHQALIKHLELNSTA--SVSEARRAAQVYR      166
OY      141  SQMEXAKTEKADAPVLIHLIRHSPFRMPVLESNIGPBGWSEKSFLLQTLATFRGOYSN      200
Db      167  ACHMETEISEIRAPGLMEILIRLG-GNMT-----TGPMAKONFO--DITQVTAHRT      216
OY      201  SVFIRLYVSPDDKASNEHILKLDQATLSLAVREDYLDNSTEAKSYRDLAKYKMDTAVLL      260
Db      217  SPFSYVAVSADSKSNSNANVIGVDSGLGSLSRDYLL-NKTENEKVLGYLAVMYQLGKLL      275
OY      261  GANSRA--EHDMSVLELEIKLIMIMPHENRSTEAM-YNNOMNISELSAMIPOPDWLGXI      318
Db      276  GGGDEEAIROPQOILPFTALANTITPOEKRDEEILYHKVYABQLTALAINMLPF-      334
OY      319  KKVLDITLYPHLKOISPSENVYVPOYPKDLFFILGSEKRTIANTYLWBMVYSRIENL      378
Db      335  ---LNTIFYP--VAINSESEPIVVDKKEYLEQISTLINTTRCLNNYIMVLYAKTSSFL      389
OY      379  SRPQYMWLSPRYIGT--FTLLPQWKCYNFIESALPYVGVKMPVDVYPOEDKGMEE      437
Db      390  DQKQDDEKFMERWYGTCKTCLPRWAFQVSDTENNGFALGPFVFAKTFABDSKSLATE      449
OY      438  LVEGVNAFTDMLKEKENMDAGTKRKAKEKARAVLAKVGPYEM-----NDTHV      488
Db      450  ILEIKKAFESL-STLKMWDESTRKSAKEKADALYNNIGYPNIMDKELDKVENDYTA      508
OY      489  NEDIKAKFEKADYFEGVNLQTRKTLASDFW-----LKAQVKEMFTNPITYNAFYS      542
Db      509  VPDL-----YFEMAMF-----FNSWRVTLADQLKRAPRDMQSMTPPVNAIYS      553
OY      543  ASTNQIRFPAGELQKPFPGTEYERSLSYGALGIYVGEETHGFDDNNGKDYKXNDLPW      602
Db      554  PTKBEIYFPGIILQAPFYTRSS--PKALNFGIGVAVGHELTHAFDDQGREYDKGNLRPW      612
OY      603  WSTSEKFEKEMKCMKMINOYSNTYMKKAGLGVYKGRFLGNIADNGLREKFLRYKMIN      662
Db      613  WKOSSVALEKROQTECWEQYSNY--SYNGEPVNGRHLGSENIADNGLKAAYRVAQWV-      669
OY      663  DRQGLEPILLPGITFTNNQLFPLSYAHVACNSYRPEARABOYVQIGASHPOPEVNGAIS      722
Db      670  -KKNGAHS--LPTLGLTNNQLFGLGFAQVCSVATPSSHEGLITDHPSPSRFVIGSLS      727
OY      723  NSEHFQKAFNCPKPNSTNNGRMDGRLM      749
Db      728  NSKEFSEHRCFQSPMN-PPHKCEVM      753

RESULT 5
US-08-289-112-2
; Sequence 2, Application US/08289112
; Patent No. 568640
; GENERAL INFORMATION:
; APPLICANT: Yanagisawa, Masashi
; TITLE OF INVENTION: Endothelin Converting Enzyme-1: A

```

TITLE OF INVENTION: Membrane-Bound Metalloprotease That Catalyzes The
TITLE OF INVENTION: Proteolytic Activation of Big Endothelin-1
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSEE: Arnold, White & Durkee
STREET: P.O. Box 4433
CITY: Houston
STATE: TX
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/289,112
FILING DATE: 10-Apr-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Parker, David L.
REGISTRATION NUMBER: 32,165
REFERENCE/DOCKET NUMBER: UTSD:414/PAR
TELECOMMUNICATION INFORMATION:
TELEPHONE: 713-787-1400
TELEFAX: 713-789-2679
TELEX: 79-0924
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 758 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-289-112-2

Query Match 31.5%; Score 1248.5; DB 1; Length 758;
Best Local Similarity 37.9%; Pred. No. 5,8e-114;
Matches 282; Conservative 121; Mismatches 281; Indels 61; Gaps 21;

23 LVVFGVGTVLVGLTILFVSGQLSLQAKQKCYCKPCIEEAAAILSKNLSVDPQCNFR 82
57 LVVIV-ALMAALVACLVAVIGIQYQRTSPVCSLSEGISVTSLSMDPTVPCODFT 115
83 PACDGIWISNNIPEDMSYGVYPMLRNVDLKLKELLESISRDRTEAIOXAKILYSSC 142
116 YACGWIKANPVPDGHSGRWGTFNLMENHQAIIKHLLENSTA--SVSEARKQOYVYRAC 173
143 MNEKAIKAKAPLILHILRSPFRWVPLSENIQPEGVMSRKESLQTLATFRGOYSNV 202
174 MNEIRIELKAKPLMEILKLG-GWNT-----TGPWDKNFQ--DTLQVVTSHYTS 223
203 FIRLYVSPDDKASNEHLIKLDOATLSLAVREDYLDNSTEAKSYRDLAYKRWDTAVLGA 262
224 FFSYVYADSKNSNSVNIQVDSGLGPRSDYTL-NKTEBKVLTGLVLMVQGLGLGG 282
263 NS-SRAHDMKSVLRLEIKTAELMIPHENTSEAM-YNKNISIELSAMIPQDMLGYIK 320
283 GAEDTIRPQOQILDEFALANTITIPQEKRRDEELIHKYTALELQTLPAINMLPF--- 339
321 VIDIRLPHDKDISPSENVVAVVQYKDFRILGSRKKTIANVYVWVYYSRIPNLSR 380
340 -LNTIFP--VEINESPIYIDKEYLSKVSTLINSKDLANNWIMMLVKTSTSFIDQ 396
381 RFQQRMLEFSRVIOGT-TTLLPQWDKCVNIESALPRVVGKMFVVDYVPOEDKKEMBEIV 439
397 RPOADAEKFMVWVGITKCTCLPRMKFCVSDTEITLGLAGPMVFKATFADSKNISSEII 456
440 EGVWAFIDMLEKENEMDAGTRKAKKARAVLAKGYEFTM-----NTHVNE 490
457 LEIKAKAEBSI-STLKMDSDTRKSAKADAIYMGPNFIMDKREDKXVNDTAVP 515
491 DLKAIKSEADYPSGNVLTQTRKYLQSPFW-----LRKAVPTKTFMTNTYNAVYAS 544

516 DL-----YFENANRF-----FNFSWRVITADQLRKAPNDQNSMTPPMVNAVYSP 560
545 TNOIRPPAGELQKPFPMGTXYPRSLSYGALGVITGHEFTGPDNNKGYDKNGLDPMWS 604
561 KNEIVFPAGILQAPFYTRSS-PNALNFGIGIVVGHSLTAFDDQGREYKDNLRPMWK 619
605 TESSEKPEKTKCMINQVSNYWKAGLVYKGRRTIGENTADNGLREAFRAYRKMINDR 664
620 NSSVEAFKQYACWVEQYGVY--SVNGEPVNGHTLGENITADNGLRAAYRAYQNMV--K 675
665 RQGLEPILRGITFTNNQLPELSAHRCSYSEAPAREQVQIGASHPPQFRVNGAISNS 724
676 KNGABQ-TLPTDGLNNQLFFLSFGQVCSVRTPDESHHGLITDPHSPSRFYIGSISNS 734
725 EEFQAFNCPNPSNTNRMGMSCRWL 749
735 KEFSEHFICPPGSPMN-PHMKCEVW 758

RESULT 6
US-08-646-273-23
Sequence 23, Application US/08646273
Patent No. 6066502
GENERAL INFORMATION:
APPLICANT: Kroeger, Burkhard, Seuberger, Harald, Meyer, Thomas, Schmidt,
Applicant: Martin, Jacob, Elard, Otter, Rainer, Subkoweki, Thomas, Heinz.
TITLE OF INVENTION: Endothelin Converting Enzyme (ECE).
NUMBER OF SEQUENCES: 36
CORRESPONDENCE ADDRESS:
ADDRESSEE: Kell & Weinlauf
STREET: 1101 Connecticut Avenue
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20036
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 1.4 MB storage
COMPUTER: IBM AT-compatible, 80486 processor
OPERATING SYSTEM: MS-DOS version 6.0
SOFTWARE: Mordperfect version 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/646,273
FILING DATE: 16-NOV-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP94/03706
FILING DATE: 11-NOV-1994
INFORMATION FOR SEQ ID NO: 23:
SEQUENCE CHARACTERISTICS:
LENGTH: 708 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-646-273-23

Query Match 31.4%; Score 1241.5; DB 3; Length 708;
Best Local Similarity 37.9%; Pred. No. 2.5e-113;
Matches 282; Conservative 120; Mismatches 282; Indels 61; Gaps 21;

23 LVVFGVGTVLVGLTILFVSGQLSLQAKQKCYCKPCIEEAAAILSKNLSVDPQCNFR 82
7 LVVIV-ALMAALVACLVAVIGIQYQRTSPVCSLSEACISVTSLSMDPTVPCODFT 65
83 PACDGIWISNNIPEDMSYGVYPMLRNVDLKLKELLESISRDRTEAIOXAKILYSSC 142
66 YACGWIKANPVPDGHSGRWGTFNLMENHQAIIKHLLENSTA--SVSEARKQOYVYRAC 123
143 MNEKAIKAKAPLILHILRSPFRWVPLSENIQPEGVMSRKESLQTLATFRGOYSNV 202
124 MNEIRIELKAKPLMEILKLG-GWNT-----TGPWDKNFQ--DTLQVVTSHYTS 173
203 FIRLYVSPDDKASNEHLIKLDOATLSLAVREDYLDNSTEAKSYRDLAYKRWDTAVLGA 262

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Db 174 PFSVYVSADSKSNSNVIQVDSGLGLPSRDYLL-KTENEKYLITGYLANVWGLKLLGG 222
QY 263 NS-SRAEHMKSVLRLKIAELMIPHERTSAM-YNNKINISLSAMTQPMGLGIKK 320
Db 223 GAEETIRPMQOILDELTALNTITPOEKRRDELLYHKYTAELQTLAIAIMWLP- 289
QY 321 VDTRLYPHLKDISPENVVVRVQYFKDLFRILGSEKRTKIANYLVWRVYGRIPILSR 380
Db 290 -LNTIFYP--VEINSEPIVIYDKELSKYSTILNSDKLLANNIMNLYKRTSSLDQ 346
QY 381 RQYRWLEFSRYIQGT-TLLPQWDKCVNFESALPYVGMFVDYFOEDKEMMEELV 439
Db 347 RFQDDEKEMEWYGTCKTCLPRMKFCVSPDTEMTLFGALPMFVKATPAEDSKNIASEII 406
QY 440 EGVRAFIIMLEKEMENMDAGTRKAKERARAVLAVGYDEFTM-----NDTHVNE 490
Db 407 LEIKALFEESL-STLKNMEDTRKSAKERADAIYMKIGIPNFMIDPRELDKYNNDTAYP 465
QY 491 DLKALKESEADYFGNVLQTRKYLAQSDFFW-----LRKAVPTXETFTNPTTNAFYSAS 544
Db 466 DL-----YFENAMRF-----NFSWRVTADQLRAKAPNDQSMTEPMNAYYSP 510
QY 545 TNOIRPPAGELQKPFWGTGEYPRSLSYGALGVYGHSEFTGCPNNRKYDKXNDLPBWS 604
Db 511 KNEIYFPAIILAPFTTRSS-PVALNFGIGVAVGHELTAFPDQGRBXDKDNLPRWK 569
QY 605 TSEBEKFKETKCMINQVSNYYWKAGLVKGRITGENTADNGGLREAFARYKWIINDR 664
Db 570 NSSVEAFKQQTACWVEQYNY--SYNGEPVNGHTITGENIADNGGLKAARAIQNNV--K 625
QY 665 RQGLEEPLIGITFTNNQLFPLSYAHRCNSYRPEARECVQIGANSPPQFRVNGAISNS 724
Db 626 KNGAQQ-TLPTGLTNNQLFLSFAQWCVSRVTPRESSHGILLTDPSPSFRFVIGSISNS 684
QY 725 BEFOKAFNCPNSTMNRGMDSCRLW 749
Db 685 KEFSEHFHCPPGSPMN-PHKCEVW 708

RESULT 7
US-08-646-273-30
Sequence 30, Application US/08646273
Patent No. 6066502
GENERAL INFORMATION:
APPLICANT: Kroeger, Burkhard, Seuberger, Harald, Meyer, Thomas, Schmidt,
APPLICANT: Martin, Jacob, Elard, Oeter, Rainer, Subkowski, Thomas, Hilten, Heinz
TITLE OF INVENTION: Endothelin Converting Enzyme (ECE).
NUMBER OF SEQUENCES: 36
CORRESPONDENCE ADDRESS:
ADDRESSEE: Kell & Weinlauf
STREET: 1101 Connecticut Avenue
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20036
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 1.4 Mb storage
COMPUTER: IBM AT-compatible, 80486 processor
OPERATING SYSTEM: MS-DOS version 6.0
SOFTWARE: Wordperfect version 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/646,273
FILING DATE: 16-NOV-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP94/03706
FILING DATE: 11-NOV-1994
INFORMATION FOR SEQ ID NO: 30:
SEQUENCE CHARACTERISTICS:
LENGTH: 754 amino acids
TOPOLOGY: linear
MOLECULE TYPE: protein

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US-08-646-273-30
Query Match      31.4%; Score 1241.5; DB 3; Length 754;
Best Local Similarity 37.9%; Pred. No. 2.8e-113;
Matches 282; Conservative 120; Mismatches 282; Indels 61; Gaps 21;

QY 23 LVVFVGGVLVYGTLLIFLVSGQLSLQAKQKCYCLKPECCEAAALITSLKNLSVDPQDNFR 82
DB 53 LVVLV-ALTAALVACLAVLGIQYQTRPSYCLSEACISVTSLSLSSMDPVPYDQCPFT 111
QY 83 FADQWISNNIPEDMDPSGVYPMILRHNVDLKLELLKSLSRDRDEALQAKILYSSC 142
DB 112 YACGGMIVANVPDQHSRMGTFSNLMENHOAIKHLLLENSTA--SVSEAEKDDDEYYAAC 169
QY 143 MNEKAIRKADKPLILHILRHSFPFMPVLESIGEGWSEKSEKSLLOTLAFRQYANSV 202
DB 170 MNEIRIELKAKPLMELEIKLG-QNLT-----TGPDKNFO--DTLQVYTSHTTSP 219
QY 203 FIRLYSPDDKASNEHILKLDQATLTSLAVREDYLDNSTEAKSYDALYKFWAVDTAVLLGA 262
DB 220 FFYSYVADSKNNSNVLYQVDQSGLGPSRDYVL-NKTEKVKLTGLYLVNWVQGLKLLGG 278
QY 263 NS-SRAEDKMSVRLREIKTAKIMIPHNRSSEAM-YNKNMISLSAMIPODMLGYIKK 320
DB 279 GAEDTIRPQOQILLDFETALANITIPKSKRDEELTHKYLVAELQTLAIPANLPF-- 335
QY 321 VITRLVPHLKDIPSENVVVRVQYEPKDLFRILGSEKRTIAYLVWRMYSRIPIULSR 380
DB 336 -LNTLPF--VEINSEPIVIYDEKYLSTKSTLINSTDKLILANNMILNVLKRTKSFLLQ 392
QY 381 RFQYRMLSPSRVIOGT-TTLLPQMDKCNFTESALPYVVGKMFVDVYFQEDKEMEBLV 439
DB 393 RFQDADEKFEWVGTKTKCLPRKFKCVSDTEINTGLFALGPMFKATFAEDSKNIASHII 452
QY 440 EGVMAPIFLMLEKEMEMMDAGTEKKAERKARVLAAGYPEFLV-----NDTHYNE 490
DB 453 LEIKKAEBSL-STLKNMDEBTRSAKEKADALYNNMIGYENFIINDPKSLDKVFNDYAVP 511
QY 491 DLKAIKSEADYFGNVLQTRKTLAQSDPFW-----LRKVPKTEWFTNPTTVAAYFAS 544
DB 512 DL-----YFENARF-----FMSRWVTDQLRKAPNRDQWMTPTMVAAYASPT 556
QY 545 TNQIRFPAQELQKQFFMGTEYPRSLTSGALGVYGHFTPTGFDNKGKVKDKNGLDPWMS 604
DB 557 KNEIVFPAIGLIGAFYTRSS-PNMLNAGGIGVAVGHELTAFADQGEYDDGRLRPWKK 615
QY 605 TSESEKYEKTKCQINQISNYWYKKAALNWKGKTLGENTADNGLAEAFAYKAMINDR 664
DB 616 NSSVEAKKQACVAGVQYNY--SVNEBPVNGRHTLQENLADNGLAAARAYQNWV--K 671
QY 665 RQGLEBPLLPQITTTNQLPFLSYAHYRCNSYRPEAREVOYGASBPQCFRVNGAISNS 724
DB 672 KNGAEQ-TLPTLGLTNNQLPFLSPAQWCSVRYTPESHGLITDPHSPSRFRVIGSISNS 730
QY 725 EEFQAFNCPNSTMNGMDSCLRM 749
DB 731 KEPSHFHCPPGSPMN-PHKCEYV 754

RESULT 8
US-09-819-989-4
; Sequence 4, Application US/09819989
; Patent No. 6482629
; GENERAL INFORMATION:
; APPLICANT: WEI, Ming-hui et al.
; TITLE OF INVENTION: ISOLATED HUMAN ENZYME PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN ENZYME PROTEINS, AND USES
; FILE REFERENCE: C0001200
; CURRENT APPLICATION NUMBER: US/09/819,989
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0

```

SEQ ID NO 4
 LENGTH: 765
 TYPE: PRT
 ORGANISM: Human
 US-09-819-989-4

Query Match 30.8%; Score 1222.5; DB 4; Length 765;
 Best Local Similarity 35.4%; Pred. No. 2.2e-111;
 Matches 270; Conservative 145; Mismatches 302; Indels 45; Gaps 20;

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4 ETSS---VETG-KKANR---GTRIAL-VYFVGGLVLTLP--LVSGQL-LSLQAKGE 52
33 EGASDPAMVGVQKGRQLGSRTOLEVLTAASLLALGLGCVLAVGYHDPSS 92
53 YLKEPECIAAAALSKVNLSVDPCCNFFRFACDGMISNNPIPEDMPSYGVYPMIRHND 112
93 TCTLEACIRVAGKILGSLDGVSPCEDFYQSCGMRIRRPDPGSRMNTFNSLMDQ 152
113 LKLELEKISIRRDTEAIQKAKILYSSQMKAEKADAKPLHLRSPFVLES 172
153 AILKHLENT--TNSSEAEQKQRYLSCLQYERIEELGAQPLRDLI-----E 200
173 NIGP--EGVSEKRSLLQTLATFRQYNSVFIRLYVSPDKASNEHLKLDQATLSL 229
201 KIGGMNITGPMQDNF--MEVLKAVAGTYRATPFTYIISADSKSSNSVVIQVDSGLPL 258
230 AVEDYLDNSTEAKSYRDALYKFMVDYAVILGANSRAEDMKSVALRIKIAEIMIPH- 288
259 PSSDYIL-NRTANEKLTAYLDYWEELGMLGSRPTSTREQMOQVLEHILQLANITVPD 317
289 ENRTSEAMYNKANISSELAMIPQDMIGYIKKVIDRLYPHLKDIPSENWVVRVQYK 348
318 QRDEEKIYHKMSISELQALAPGMDLEFLSLSP-----LELSDSEPVVYGMVDYLQ 371
349 DLRLIASEKKTITANTLVWRMYTSRIPIISRFPQYRMLSPSVIQT--TLLPQDKCY 407
372 QVELINRTEPSILNNYLINVLQKTTSLDRFEESAQSELTETLYGTKSCVPRMOTCI 431
408 NFESALPYVVGKMFVNVYFQEDKEMMEELVGVMAFIDMLEKENEMWDAGTKKAK 467
432 SNDDDLGFLGSLFYKATFDROSKELAEGBMISEITAFEEAL--GGLVWMDKTRAAE 490
468 KAAVLAQVYPEFINDTHVNEEDLKAIKSEADYGNVLOTKRYLAQSDFFMLKRAVYK 527
491 KAAIADMIQFPFIEPEKELDYDGEISEDSFQNMNLNYPFAKWAADQLRKXPBR 550
528 TEMPTNTYNAFASASTNOIRFPAGELQKPFMGTEYPRSLSYGAIYVGHBFTHGPD 587
551 DQMSMTPOYNATYLPFKNEIVFPAGILOAPFY--AANHPRALNFGGIVVMGHELTAD 609
588 NNGKRYDKGNLDPWMSSESEKPEKTKCMINQYSNYYWKKAGLVNKGRTIGENIADN 647
610 DQGEYKEKGNLRPMWQNEISLAAFRNHTACMEQYNY--QVNGERLNGQITIGENIADN 667
648 GGLREAPRAYRKMINDROGLEBELLPGITFTNNOLFPLSYAHVRCNSYRPEARQVOI 707
668 GGLKAAVNAKAM--RKHG--EEQOLPAVGLTHQLPFGVFAQVWCSVRTPESSHEGLVT 724
708 GAHSPQFRVNGAISNESEFOKAFNCPNSTNRGMDSCRLW 749
725 DPHSPARFVLTGLNSRDLRHFQGVGSPMNPFG--QLCEVW 765

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RESULT 9
 US-09-819-989-2
 Sequence 2, Application US/09819989
 Patent No. 6482629
 GENERAL INFORMATION:
 APPLICANT: WEI, Ming-Hui et al.
 TITLE OF INVENTION: ISOLATED HUMAN ENZYME PROTEINS, NUCLEIC
 TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN ENZYME PROTEINS, AND USES
 FILE REFERENCE: C1001200

CURRENT APPLICATION NUMBER: US/09/819,989
 CURRENT FILING DATE: 2001-03-29
 NUMBER OF SEQ ID NOS: 4
 SOFTWARE: FastSeq for Windows Version 4.0
 SEQ ID NO 2
 LENGTH: 811
 TYPE: PRT
 ORGANISM: Human
 US-09-819-989-2

Query Match 30.8%; Score 1221; DB 4; Length 811;
 Best Local Similarity 35.2%; Pred. No. 3.4e-111;
 Matches 264; Conservative 144; Mismatches 303; Indels 38; Gaps 17;

```

10 ETGKANRGRTRIAL-VYFVGGLVLTLP--LVSGQL-LSLQAKGEYCLKEPECIAAAA 65
92 QKGRQLGSRTOLEVLTAASLLALGLGCVLAVGYHDPSSHTCTLEACIRVAGK 151
66 ILSKVNLSVDPCCDFFRFACDGMISNNPIPEDMPSYGVYPMIRHNDLKLKLEKISIR 125
152 ILSELDGVSPCEDFYQSCGMRIRRPDPGSRMNTFNSLMDQNALIKHLENT--TF 210
126 RRDTEAIQKAKILYSSQMKAEKADAKPLHLRSPFVLESNIGP--EGVWSE 182
211 NSSEAEQKQRYLSCLQYERIEELGAQPLRDLI-----EKIGGMNITGPMQ 259
183 KPELQTLATFRQYNSVFIRLYVSPDKASNEHLKLDQATLSLAVEDYLDNSTEA 242
260 DNF--MEVLKAVAGTYRATPFTYIISADSKSSNSVVIQVDSGLFSPSDYIL-NRTAN 316
243 KSYRDALYKFMVDYAVILGANSRAEDMKSVALRIKIAEIMIPH-ENRTSEAMYNKAN 301
317 EKVYAYLDYWEELGMLGSRPTSTREQMOQVLEHILQLANITVPDQRDEEKIYHKMS 376
302 ISELAMIPQDMIGYIKKVIDRLYPHLKDIPSENWVVRVQYFMDLRILASEKKT 361
377 ISELQALAPGMDLEFLSLSP-----LELSDSEPVVYGMVDYLQVSELINRTEPSI 430
362 IANTLVWRMYTSRIPIISRFPQYRMLSPSVIQT--TLLPQDKCYNFESALPYVVGK 420
431 LANTLVNVLQKTTSLDRFEESAQSELTETLYGTKSCVPRMOTCISNDDDLGFLGSL 490
421 MFVDYFQEDKEMMEELVGVMAFIDMLEKENEMWDAGTKKAKAAVLAQVYPE 480
491 LFVYATFDROSKELAEGBMISEITAFEEAL--GGLVWMDKTRAAKAAIADMIQFPD 549
481 FIMNDTHVNEEDLKAIKSEADYGNVLOTKRYLAQSDFFMLKRAVYKTEMPTNTYNAF 540
550 FIEPEKELDYDGEISEDSFQNMNLNYPFAKWAADQLRKXPBRDQMSMTPOYNAY 609
541 YSASTNOIRFPAGELQKPFMGTEYPRSLSYGAIYVGHBFTHGPDNNGKRYDKGNL 600
610 YLPFKNEIVFPAGILOAPFY--AANHPRALNFGGIVVMGHELTADPQDQREYKXENLR 668
601 PMSSESEKPEKTKCMINQYSNYYWKKAGLVNKGRTIGENIADNGLEAPRAYRKM 660
669 PMWQNEISLAAFRNHTACMEQYNY--QVNGERLNGQITIGENIADNGLEKAAVNAKAM 726
661 INDRQGLEBELLPGITFTNNOLFPLSYAHVRCNSYRPEARQVOIGAHSPQFRVNGA 720
727 L--RKHG--EEQOLPAVGLTHQLPFGVFAQVWCSVRTPESSHEGLVTDPHSPARFVLT 783
721 ISNESEFOKAFNCPNSTNRGMDSCRLW 749
784 LNSRDLRHFQGVGSPMNPFG--QLCEVW 811

```

RESULT 10
 US-09-667-373-4
 Sequence 4, Application US/09667373
 Patent No. 6524840
 GENERAL INFORMATION:
 APPLICANT: Donoho, Gregory

APPLICANT: Turner, C. Alexander Jr.
 APPLICANT: Nehls, Michael C.
 APPLICANT: Friedrich, Glenn
 APPLICANT: Zambrowicz, Brian
 APPLICANT: Sands, Arthur T.
 TITLE OF INVENTION: No. 6524840el Human Endothelin Converting
 TITLE OF INVENTION: Enzyme-Like Proteins and Polynucleotides Encoding the Same
 FILE REFERENCE: LEX-0043-USA
 CURRENT APPLICATION NUMBER: US/09/667,373
 PRIOR FILING DATE: 2000-09-22
 PRIOR APPLICATION NUMBER: US 60/156,102
 PRIOR FILING DATE: 1999-09-24
 PRIOR APPLICATION NUMBER: US 60/176,689
 NUMBER OF SEQ ID NOS: 5
 SOFTWARE: FASTSEQ for Windows Version 4.0
 SEQ ID NO: 4
 LENGTH: 883
 TYPE: PRT
 ORGANISM: homo sapiens
 US-09-667-373-4

Query Match 30.8%; Score 1221; DB 4; Length 883;

Best Local Similarity 35.2%; Pred. No. 3.9e-111;

Matches 264; Conservative 144; Mismatches 303; Indels 38; Gaps 17;

QY 10 ETGKAKRGTRIAL-VVFGTVLGTILF--LVSGQL-LSLQAKQCYCKPECTEAAA 65
 DB 164 QKGRQLGSGRTQELVLAGASLLAALLGCLVALGVYHRDPSHSTCTEACIRVAGK 223
 QY 66 ILKVNLSVDCDNFPPACDGMISNNPIPEDMPSYGVYVWLRHNVDLKLEKLEKISIR 125
 DB 224 ILKSLDGVSPCEDFYQSCGGMIRNPLPDGRSRMTFMSIMQNALIKHLENT-TF 282
 QY 126 RRDTEALOKATILSSCMNEKAIKADAKPLHLIRHSPRPVLESNTGP--EGWSE 182
 DB 283 NSSEABKCTGRFLSCQYERIEELGQPLRDLI-----EKIGWNTGTWDQ 331
 QY 183 RKFSLLQTLATFRQYSNSVFIRLVYSPDDKASNEHILKLDQATLSLAVEDYLDNSTEA 242
 DB 332 DNF--MEVLKAVAGTRATPTFTYIISDSSNSNVIQVDSGLFSPSDYL-NRTAN 388
 QY 243 KSYRDALYKENVDAVLIGANSSRAEDHMSVLRLEIKIAEIMIPH-ENRTSEAMYNKN 301
 DB 389 EKVLTAYLDYMEELGMLGGRPTSTREMOQVLELQIANITVPQQRDEEKIYKMS 448
 QY 302 ISELAMIPQDFMIGYIKKVIDTLYPHLKDIPSSENVYVRVQYFQDLFRILGSEKKT 361
 DB 449 ISELQALPSPDMLEFLSLSP-----LELSDSEPVVYGMIDYLDQVSELNRTPEST 502
 QY 362 IANYLVWRYVSRIPNLSRRFQYMWLEBSRVIOGT-TTLDPOMDKCVNFTESALPYVVGK 420
 DB 503 LNNYLIWLVQCTSSLDPRPESAQEKLETLTGKKS CVPRMOTCISNTDDALGFALGS 562
 QY 421 MFUVVYQEDKEMMEBELVEGVRAFLIDMLEKENMDAGTKRAKAKAAVLAQVYRE 480
 DB 563 LRVATPFRQSKELAEGLISIRTAFEAL-GQLVMDEKTRQAKAKAALIDMGFPD 621
 QY 481 FIMNDVTNEIDLKAIKESSEADYFGNVLQTRKYLAQSDFFWLKRAVPTKTEFTPTYNAF 540
 DB 622 FILPKELDDYVDGEISEDSFPQNMNLNMFSAKWADQKRKPSADQMSMTPOITNAY 661
 QY 541 YSASTNQRPAGELQRFVWGTVEYPRSLYGALGVYVGEHFTYEPNNQGRKIDKNGTLD 600
 DB 682 YLPTKNEIVFAGLLOAFY--ARNHPKALNFGGIVVGHGELTAAPDQSRBYDKENLNR 740
 QY 601 PWSSESEKKEKTKCMINQSYNYWKAGLANYKGRITLGENIADNGGLREAFRAYRY 660
 DB 741 PWNQESLAARNTTACREBOYNOY--QVNGERLNGQITLGENIADNGGLKAAVNAKAY 798
 QY 661 INDRQGLEEPLLGITTTNQLPFLSYAHYRCSYRPEARRECVQIGASPPQFRVNGA 720
 DB 799 L--RKHG--EEQOLPAVGLTNHQLFFVGAQVWCVTRPESHEGLVTPDPSPARFRVLGT 855

QY 721 ISNSEFOKAPNCPNSTNRGMDSCRLW 749
 DB 856 LSNRDLFLHFGCPNPSNMPG-QUCFVW 883

RESULT 11
 US-08-574-763-2
 Sequence 2, Application US/08574763
 Patent No. 5736376
 GENERAL INFORMATION:
 APPLICANT: Yanagisawa, Masashi
 TITLE OF INVENTION: RECOMBINANT ENDOTHELIN CONVERTING
 TITLE OF INVENTION: ENZYME-2 AND ITS USE IN ECE INHIBITOR SCREENING
 NUMBER OF SEQUENCES: 7
 CORRESPONDENCE ADDRESSES:
 ADDRESSER: Arnold, White & Durkee
 STREET: P. O. Box 4433
 CITY: Houston
 STATE: TX
 COUNTRY: USA
 ZIP: 77210-4433
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SORTWARE: Patentin Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/574,763
 FILING DATE: Concurrently herewith
 CLASSIFICATION: 530
 ATTORNEY/AGENT INFORMATION:
 NAME: Corder, Timothy S.
 REGISTRATION NUMBER: 38,414
 REFERENCE/DOCKET NUMBER: UTXD:472
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (512) 418-3000
 TELEFAX: (512) 474-7577
 INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 787 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 US-08-574-763-2

Query Match 29.9%; Score 1184; DB 1; Length 787;

Best Local Similarity 35.1%; Pred. No. 1.4e-107;

Matches 265; Conservative 138; Mismatches 313; Indels 38; Gaps 18;

QY 4 ETGSSVETGKAKRGTRIALVVFGTVLGTILF--LVSGQL-LSLQAKQCYCKPECTI 60
 DB 64 EAGFRRTSRILGTLQTELVL-AGVSLILAALLGCLVALGVYHRDPSHSTCTEACI 122
 QY 61 EAAAILSKVNLSVDCDNFPPACDGMISNNPIPEDMPSYGVYVWLRHNVDLKLEKLE 120
 DB 123 RVAKILSLDGVSPCEDFYQSCGGMIRNPLPDGRSRMTFMSIMQNALIKHLENT 182
 QY 121 KSISSRRDTEALOKATILSSCMNEKAIKADAKPLHLIRHSPRPVLESNTGP--PE 177
 DB 183 NT-TNNSSEABKCTGRFLSCQYERIEELGA-----HALND-----LIDKIGWNT 230
 QY 178 GWSSEKRSLLQTLATFRQYSNSVFIRLVYSPDDKASNEHILKLDQATLSLAVEDYLD 237
 DB 231 GEMDDNF--MEVLKAVAGTRATPTFTYIISDSSNSNVIQVDSGLFSPSDYL- 287
 QY 238 NSTEAKSYDALYKENVDAVLIGANSSRAEDHMSVLRLEIKIAEIMIPH-ENRTSEAM 296
 DB 288 NRTANEXVLTAYLDYMEELGMLGGRPTSTREMOQVLELQIANITVPQQRDEEKI 347
 QY 297 YKNKNISELAMIPQDFMIGYIKKVIDTLYPHLKDIPSSENVYVRVQYFQDLFRILGS 356
 DB 348 YHKMSIAELQALPDMWLEFLSLSP-----LELSDSEPVVYGMIDYLDQVSELNLR 401

QY 357 ERKKTIANLYVMRYSRIPNLRRFOYMWLEFSRVIOGT-TTLLEPOMDKVNFIESALP 415
DB 402 TERSVANNYLIWLVYKTTSSLDHRESAQEKLETLVYTKKSCPRWOTCTISNTDDALG 461
QY 416 YVVGKRFVDVYFQEDKXEMMELVEGVRAFMTELEKEMNDAGTKRKAERKAAVYLAK 475
DB 462 FALGSLFVKATFROSSELAEMGISIRVAFEEAL-GHLYMDEKTRQAKKAAKALIDM 520
QY 476 VGYPEFMDTHVNEIDKAIKFSADYFGNVLOTRKYLAQSDPFMLRKAVPRTFMTNPT 535
DB 521 IGRPDLFEKELDDVDYDGEVSEDSFQNMMLNFMFAKMAADQARKPSDDQMSMTPO 580
QY 536 TNAFTSASTNOIRFPAGELOKPFWGTBYRSLSGAIGVYGEHFTGFPNNGRKIDK 595
DB 581 TVNAYVLPFTNNEIVFPAGILOAPFY-TCNHPALNFGIGIVMGHETIAPDQGREYDK 639
QY 596 NGULDPWMSSEBEKPEKTKCMINQYSNYMKKALNFKKRTLGENIADNGLEAREPR 655
DB 640 EGRLEPMWONESLAARNTACIEEYQSY--QVNEKANGKOTLGENIADNGLEAKAYN 697
QY 656 AYKMINDRROGLEEBLLPGITFTNNQLFSLSAHYRCSYREPARBQVOIGASPPQF 715
DB 698 AYKAML--RKHG-EEQOLPVGGLTNHQLPFGVGAQWCSVTPRESHEGLVTDPSPARF 754
QY 716 RVNGAISNSEEFOKAFNCPNSTMNKGMSCLM 749
DB 755 RVLGTLNSKRDLHFQCPVGSFMSNG-OLCEWV 787

RESULT 12
US-09-305-640-2
Sequence 2, Application US/09305640B
Patent No. 6255468
GENERAL INFORMATION:
APPLICANT: SmithKline Beecham plc
TITLE OF INVENTION: No. 62554681 Compounds
FILE REFERENCE: GP30124
CURRENT APPLICATION NUMBER: US/09/305,640B
CURRENT FILING DATE: 1999-05-05
NUMBER OF SEQ. ID NOS: 4
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 2
LENGTH: 775
TYPE: PRT
ORGANISM: Homo sapiens
US-09-305-640-2

Query Match 24.8%; Score 983.5; DB 3; Length 775;
Best Local Similarity 31.0%; Pred. No. 8,9e-88;
Matches 233; Conservative 159; Mismatches 294; Indels 67; Gaps 19;

QY 23 LVVFGGTLVGLTILFVSQGLSL--QAKQCYLKEPCEIAAAAIL-SKVMLSVDPDN 79
DB 66 LVPAAGCALIAMLAKTYGPAAGGACPECCPRKAFAPARATLANLDAISIDPOD 125
QY 80 FFRPADGWNISNPIDEMPSYGVYPMLRNVLDKIELIKSISRRTTEAIQAKILY 139
DB 126 FYEFACCGMLRRHAIPIPDKLTGTIAIGQNERELRLARP-GGPGGAQARKVRAF 184
QY 140 SSCMNEKAIKKAQAKPLHLHRSPPRWPLSENIPGVW-----SER-----KPSLLQ 189
DB 185 RSCIDMEIERLGRPRFLVIEDC-----GMDLGAEEPRGVAARDDLNR 230
QY 190 TLATFRQYNSVFIIRLYVSPDKASNEHLKDQATLSIAVEDYLDNSTEAKSYRDL 249
DB 231 LLYAAQGVYSAALFSLTVSLDRNSRYVIRIDQGLTLPERTLYIADDESEKILAY 290
QY 250 YKFMVDAVALLGANSASAEHDMKSVLRLEIKIABIMIPHN---RTSEAMVNNMNSIS 306
DB 291 RVNERTLSLIGADA--VEQKAEIILQVEQOLANTVSEVDLRRVSNMKNKVTIGQIQ 348
QY 307 AMIPQDMGLYIKKVIDTRLYPHLKDISENVVVRPOYFKDLFIILSEKRTIANTL 366

DB 349 KITPRLRWKMLDQIFQ-----EDFSEEEVLLATDYMQQVSLIRSTPRVLYNTL 401
QY 367 VMRWVYRIPDNLSSRFQYRWLEFSRVIOGTTLLPQMDK-----CVNFIESALPYVG 419
DB 402 VMRYVYVLSLSEHSPFBAHLELAQEMSS-----DKQELARVYICGANNHFGALG 454
QY 420 KMFVDVYFQEDKXEMMELVEGVRAFMTELEKEMNDAGTKRKAERKAAVYLAKYGP 479
DB 455 ALFVHEHFSASAKAVQOQVEDIKYILIGQRL-ELMDMDAETRAAARAKQYMMVWVGY 513
QY 480 EFINMDTHVNEIDKAIKFSADYFGNVLOTRKYLAQSDPFMLRKAVPRTFMTNPTVNA 539
DB 514 DFLKPAVDKSEJ-EEVHEKTYFKNLINSIRSIQLSVYKIQOEDKSWLLPQALNA 572
QY 540 FYSASTNOIRFPAGELOKPFWGTBYRSLSGAIGVYGEHFTGFPNNGRKIDKXNGL 599
DB 573 YLLPNQWMPFAGIILQ-PLTYDPDFQSLNYGIGITIIHELTHTGYDDGQYDSSGNL 631
QY 600 DPMWSTSEBEKPEKTKCMINQYSNY--YMKKGLVNGKRTLGENIADNGLEAREPRAY 657
DB 632 LHMWTEASYSRFLKACIYALYDNFTVYNQ---VNGHHTLGENIADNGLEALHAY 687
QY 658 RKMINDRROGLEEBLLPGITFTNNQLFSLSAHYRCSYREPARBQVOIGASPPQFV 717
DB 688 QKWV--REHGEHP-LPRLKTYHDQLEFFIAQNMWCKRSGSITLYQLTKAPBEHYR 744
QY 718 NGAISNSEEFOKAFNCPNSTMNKGMSCLM 749
DB 745 LGSVQFEFEGRAHFCPKDSPMNPA-HKCSWV 775

RESULT 13
US-08-646-273-19
Sequence 19, Application US/08646273
Patent No. 606502
GENERAL INFORMATION:
APPLICANT: Kroeger, Burkhard, Seuberg, Harald, Meyer, Thomas, Schmidt,
Applicant: Martin, Jacob, Blard, Oter, Rainer, Subkowski, Thomas, Hellen, Heinz.
TITLE OF INVENTION: Endochitin Converting Enzyme (ECE).
NUMBER OF SEQUENCES: 36
CORRESPONDENCE ADDRESS:
ADDRESSEE: Kell & Weinkauf
STREET: 1101 Connecticut Avenue
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20036
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 1.4 Mb storage
COMPUTER: IBM AT-compatible, 80486 processor
OPERATING SYSTEM: MS-DOS version 6.0
SOFTWARE: WordPerfect version 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/646,273
FILING DATE: 16-NOV-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP94/03706
FILING DATE: 11-NOV-1994
INFORMATION FOR SEQ ID NO: 19:
SEQUENCE CHARACTERISTICS:
LENGTH: 567 amino acids
TYPES: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-646-273-19

Query Match 24.3%; Score 963.5; DB 3; Length 567;
Best Local Similarity 37.7%; Pred. No. 4,9e-86;
Matches 226; Conservative 96; Mismatches 216; Indels 61; Gaps 21;

QY 106 WLRNVLDKIELIKSISRRTTEAIQAKILYSSCMNEKAIKKAQAKPLHLHRSPP 165


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Db      12 W EHNQAI IKHLEENSTA--SVSEAEKDOEYRAACNNEIRIEELKAKPLMELIEKIG- 66
Qy      166 RMPVLESNIIGEGVWSEKRSLSLQTLATFRQYNSVFIRLYVSPDDKASNEHILKIDQA 225
Db      67 GNNI-----TGPMDKNFO--DILQYVTHSHYHSPPFSYVYVADNSNSNIQVDS 117
Qy      226 TLSTAVREDYLDNSTEAKSYRDALYKFWDTAVILGANS-SPAHEMKSVALRIEIKLAEI 284
Db      118 GIGLPSRYYL-NKTEENKVLGYLANYVOLGKLGGGAEDTIRPOMQOIIDPFTALANI 176
Qy      285 MIPHENRTSEAM-YNKNMISELSAMIPOFDMGYIKVYIDTRLYPHLKDISPSNVVVRV 343
Db      177 TIPQKRDDELIYHKYTAABEQLTAPAINHPF-----LNTLTPD--VEINSEPIYID 230
Qy      344 POYFQDLFRILGSEKKTITANTLVWRMYYSRIPLMSRRFOYRWLEFSFVIOGT-TLLLPQ 402
Db      231 KEYSKRVSTLINSTKCLNNTMNMVLRKTISSFIDQRFODAEKFMVMTGKTCLPR 290
Qy      403 WDKCVNFIESALPYVVGQFVDVYFOEDKMMELVSGRWAFIDMLEKENEMDAGTK 462
Db      291 MKFCVSDTEHTLGFALGMPFYKATPAEDSKVIAEILIEIKAEBSL-STLKMDSDTR 349
Qy      463 RRAKAKAVLAKGYPEFIM-----NDTHVNEDLKAIFSEADYFGNVLOTQKYL 513
Db      350 KSAEKADAIYNMIGYPFIMDPKELDKVNDYTAVPDL-----YFENAMRF----- 396
Qy      514 AQSDFFW-----LRKAVKTEMFTNPPTTNAFYSASTNOIRPAGELQYFPFMTGYPR 567
Db      397 --FMSWVTDADQKRAKRNQWMTPEMVAAYSPTEINLVFAGILQAFYRSR-PN 453
Qy      568 SLASYAGIVGVHEFTGPDNNGRKYDKNGNLDPMWSTSESEKKEKTKCMINQSYW 627
Db      454 ALNFGIGVVGVELHAFDQGREYDQGNLRPMWNSSVFAKQOQACVBEYGNV-- 511
Qy      628 KKAAGLVKAGKTIGENINDGGLREAFPAKYMINDRQGLEEPLPGITFTNNQLEFL 686
Db      512 SVNGEPVNGRHTLGENIADNGGLKAAVAYQNVV--KNGAEQ-TLEPLGITNNQLEFL 567

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RESULT 14

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US-09-328-352-5182
/ Sequence 5182, Application US/09328352
/ Patent No. 6562358
/ GENERAL INFORMATION:
/ APPLICANT: Gary L. Bretton et al.
/ TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
/ FILE REFERENCE: GTC99-0352
/ CURRENT APPLICATION NUMBER: US/09/328,352
/ CURRENT FILING DATE: 1999-06-04
/ NUMBER OF SEQ ID NOS: 8252
/ SEQ ID NO 5182
/ LENGTH: 690
/ TYPE: PRN
/ ORGANISM: Acinetobacter baumannii
US-09-328-352-5182

```

Query Match 20.0%; Score 790; DB 4; Length 690;

Best Local Similarity 30.3%; Pred. No. 9.4e-69;

Matches 209; Conservative 132; Mismatches 279; Indels 70; Gaps 18;

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Qy      70 VNLSVDDCNDFRACGWSNNPIPEDMPSYGYVFWLRANVDLKLKL--LEKSISSRR 127
Db      50 IDSSISKNDYAHVANGIWLKNTETIPADKANWGA-FNQLR--ELISQVGIYEBLSRKK 106
Qy      128 --DTEALQKALITYSSCNNEKALEKADAKPLHLIRSPRWPLVLSNIGPEGWSEKRF 185
Db      107 WADGSLRQKIALTYASPMDEKIGIEKGIIFLQAELENGI-----DLKNNKQI 153
Qy      186 SLQTLATPRGQYNSNFIPLIYVSPDKASNEHILKIDQTLSTLAVREDYLDNSTEAKSY 245
Db      154 AVL--MAHFARINVNSP-IGLIGIEQDKKSTENVAGLEQGLPDRDYTLKDDKKFIET 210

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```

Qy      246 RDALYKFWDTAVILGANSRRAEHDKSVLRLEIKLAEIMIPH-ENRTEAMYNKNMISE 304
Db      211 RAYLYKTIKTIKTLSTL-AEDSOAAQHAQETLKIETQARIQSNVQNRDLAKRYNKKLAD 268
Qy      305 LSNMIDQPMUGY-----IKKVIDTRLYPHLKDISPSNVVVRVPOYFQDLFRILGSEK 359
Db      269 LVYLTTPAFPWMQGLTATLTKGKIDT-----IQVNOQDYFQGLNTIIONTEPL 314
Qy      360 KTIANTLVWRMYYSRIPLMSRRFOYRWLEF-SRVIQGTTLTLPMDKCNFIESALPYV 418
Db      315 DTKAYFKHLINNEBPLNSAFVNDKPEFTYKTLIDITEQARKRGYQVLDKYLGDGI 374
Qy      419 GRNFVDVYFOEDKMMELVSGRWAFIDMLEKENEMDAGTKKAKAKAVLAKGY 478
Db      375 GKLYVERKYPFAEKQOMELLYONLIRAY-DQSTIELDMSPATKIQARKLSHMSIKIGY 433
Qy      479 PERIMDTHVNDLKAIRKSEADYGNVLOTQKYLQSPFVLKRAVPTETFTPTTN 538
Db      434 FK-----KRDYSDLHAKDVLGNITRASEFRYQTEHLNFGKPVDRDEWYMKPQTIV 486
Qy      539 AFYSASTNOIRPAGELQYFPFMTGYPRSLSYGALGVIVGHEFTGPDNNGRKYDKNGN 598
Db      487 AYTNPSELNTEVPPALLOPPF-NINADDAVYGGIGAVIGHEISHGFTDQSSQFDELGN 545
Qy      599 LDPWSTSESEKKEKTKCMINQSYWYKAGLVKGRITIGENIADNGGLREAFRAV 658
Db      546 MRWMAAEHOFHFKATQALIBQY-NRYPEPIGYHVBELTIGENIANSGLATLYKAYQ 604
Qy      659 KMINDRQGLEEPLPGITFTNNQLEFLSYAHVRCNSVREARBOVOIGASPOFRVN 718
Db      605 IALG-----GKPAFVLDG--QTGEQRFYGMQAWMAKTRERQALITYLKTDRHSPKRVGN 658
Qy      719 GAISNSEFQKAFN-----CPNSTGN 740
Db      659 GALMOKPYEAFKINBDQWYLPPEKRYN 688

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RESULT 15

US-08-646-273-14

/ Sequence 14, Application US/08646273

/ Patent No. 606502

/ GENERAL INFORMATION:

/ APPLICANT: Kroeger, Burkhard, Seubberger, Harald, Meyer, Thomas, Schmidt,

/ APPLICANT: Martin, Jacob, Eldar, Oteri, Rainer, Subkowski, Thomas, Hellen, Heinz.

/ TITLE OF INVENTION: Endothelin Converting Enzyme (ECE).

/ NUMBER OF SEQUENCES: 36

/ CORRESPONDENCE ADDRESS:

/ ADDRESS: Keil & Weinkauff

/ STREET: 1101 Connecticut Avenue

/ CITY: Washington

/ STATE: D.C.

/ COUNTRY: USA

/ ZIP: 20036

/ COMPUTER READABLE FORM:

/ MEDIUM TYPE: Diskette, 3.5 inch, 1.4 Mb storage

/ COMPUTER: IBM AT-compatible, 80486 processor

/ OPERATING SYSTEM: MS-DOS version 6.0

/ SOFTWARE: WordPerfect version 5.1

/ CURRENT APPLICATION DATA:

/ APPLICATION NUMBER: US/08/646,273

/ FILING DATE: 16-NOV-1994

/ CLASSIFICATION: 435

/ PRIOR APPLICATION DATA:

/ APPLICATION NUMBER: PCT/EP94/03706

/ FILING DATE: 11-NOV-1994

/ INFORMATION FOR SEQ ID NO: 14:

/ SEQUENCE CHARACTERISTICS:

/ LENGTH: 189 amino acids

/ TYPE: amino acid

/ TOPOLOGY: linear

/ MOLECULE TYPE: protein

/ US-08-646-273-14

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: February 20, 2004, 14:19:33 (Search time 58.7451 Seconds
(without alignments)
2669.624 Million cell updates/sec

Title: US-09-913-955a-1

Perfect score: 3958
Sequence: 1 MEATGSSVETGKXANRGT.....AFNCPNSTANRGWDSCLM 749

Scoring table: BLOSUM62
Gapop 10.0, Gapext 0.5

Searched: 801455 seqs, 209382283 residues

Total number of hits satisfying chosen parameters: 801455

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

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1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*
2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep:*
3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1361.5	34.4	779	US-10-104-047-3386	Sequence 3386, App
2	1352	34.2	753	US-10-147-828-6	Sequence 6, App1
3	1333.5	33.7	779	US-10-147-828-4	Sequence 4, App1
4	1333.5	33.7	779	US-09-905-846-2	Sequence 2, App1
5	1333.5	33.7	779	US-10-192-407C-2	Sequence 2, App1
6	1332.5	33.7	779	US-10-017-273A-6	Sequence 6, App1
7	1332.5	33.4	691	US-10-147-828-2	Sequence 2, App1
8	1321	33.4	742	US-10-274-639-13	Sequence 13, App1
9	1323	30.9	736	US-09-978-295A-526	Sequence 526, App
10	1323	30.9	736	US-09-978-697-526	Sequence 526, App
11	1323	30.9	736	US-09-978-192A-526	Sequence 526, App
12	1323	30.9	736	US-09-999-832A-526	Sequence 526, App
13	1323	30.9	736	US-09-978-189-526	Sequence 526, App
14	1323	30.9	736	US-09-978-608A-526	Sequence 526, App
15	1223	30.9	736	US-09-978-585A-526	Sequence 526, App

16	1223	30.9	736	11	US-09-978-191A-526	Sequence 526, App
17	1223	30.9	736	11	US-09-978-403A-526	Sequence 526, App
18	1223	30.9	736	11	US-09-978-564A-526	Sequence 526, App
19	1223	30.9	736	11	US-09-999-833A-526	Sequence 526, App
20	1223	30.9	736	11	US-09-981-915A-526	Sequence 526, App
21	1223	30.9	736	11	US-09-978-824-526	Sequence 526, App
22	1223	30.9	736	11	US-09-918-585A-526	Sequence 526, App
23	1223	30.9	736	11	US-09-978-423A-526	Sequence 526, App
24	1223	30.9	736	11	US-09-978-133A-526	Sequence 526, App
25	1223	30.9	736	11	US-09-999-830A-526	Sequence 526, App
26	1223	30.9	736	11	US-09-978-757A-526	Sequence 526, App
27	1223	30.9	736	11	US-09-978-187B-526	Sequence 526, App
28	1223	30.9	736	11	US-09-978-633A-526	Sequence 526, App
29	1223	30.9	736	12	US-09-978-375A-526	Sequence 526, App
30	1223	30.9	736	12	US-09-978-188A-526	Sequence 526, App
31	1223	30.9	736	12	US-09-978-289A-526	Sequence 526, App
32	1223	30.9	736	12	US-10-143-021A-526	Sequence 526, App
33	1223	30.9	736	12	US-10-002-967A-526	Sequence 526, App
34	1223	30.9	736	12	US-10-017-083A-526	Sequence 526, App
35	1223	30.9	736	12	US-10-143-030A-526	Sequence 526, App
36	1223	30.9	736	12	US-10-199-672-420	Sequence 420, App
37	1223	30.9	736	12	US-10-187-749-420	Sequence 420, App
38	1223	30.9	736	12	US-10-194-457-420	Sequence 420, App
39	1223	30.9	736	12	US-10-145-128A-526	Sequence 526, App
40	1223	30.9	736	12	US-10-184-642-420	Sequence 420, App
41	1223	30.9	736	12	US-10-196-747-420	Sequence 420, App
42	1223	30.9	736	12	US-10-173-690-420	Sequence 420, App
43	1223	30.9	736	12	US-10-173-691-420	Sequence 420, App
44	1223	30.9	736	12	US-10-173-691-420	Sequence 420, App
45	1223	30.9	736	12	US-10-173-692-420	Sequence 420, App

ALIGNMENTS

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RESULT 1
US-10-104-047-3386
; Sequence 3386, Application US/10104047
; Publication No. US20030236392A1
; GENERAL INFORMATION:
; APPLICANT: HELIX RESEARCH INSTITUTE
; TITLE OF INVENTION: NO. US20030236392A1 full length cDNA
; FILE REFERENCE: H1-A0105
; CURRENT APPLICATION NUMBER: US/10/104,047
; CURRENT FILING DATE: 2002-03-25
; PRIOR APPLICATION NUMBER:
; PRIOR FILING DATE:
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 3386
; LENGTH: 779
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-104-047-3386
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Query Match 34.4%; Score 1361.5; DB 12; Length 779;
Best Local Similarity 39.8%; Pred. No. 1.6e-116;
Matches 288; Conservative 145; Mismatches 254; Indels 37; Gaps 17;

QY	42	CGELISQAOEYCLAPCEIAAALISKVNSVDCNFPFACDGIWISNNIPEDMSY	101
DB	77	RQIPKQSESEACTPGCVIAARILQWDDPTTECCDDFYQACGWTARHVIPTNSRY	136
QY	102	GYVFWLRHNVDPKLELEKESISRRDTEAIOKALITYSSCNEKAIKKAUKPLAHIR	161
DB	137	SIFVDLRDELVLITLAVLENSGA--KORPAYEKATILVSCNQSIVIKRSGPLDIL-	193
QY	162	HSPFRPVLESITGSEGWSEK--KPSLQTLATFRQYNSVIRLYVSPDDASNEH	218
DB	194	EYVVGKPVAMDR-----WNEVGLKWEILERLALMNSQFNRRLVIDLFINWDDNSRH	247
QY	219	IKLDDATSLAVREDYLDNSTEAKSYDALYKFWVDYRAVLL--GANSGR-----AEHMK	272

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Db      248 IIVIDPGLGMPRESEYFNGSGNRK-VREAYILOFWVSVAITLLREDANLPRDSCLVQEDWV 306
Qy      273 SVYRLKIKABIMIPHENRTSE-AMYNKNISELSAM--IPQDWLGVIKKVIDTRLYPH 329
Db      307 QVLELTQAKATVPQBERHDVIALYHRNGLELQSGFGKGFNWLFIQTWLS----- 361
Qy      330 LK-DIPSENVVVRVDPQYFQDLFRLLGSEKRTIANYLVWVYSIIPULSRPQYRME 388
Db      362 VKIKLIPDEEVVYVGIPIYQNLNENIIDTYSARTIQNYLVWVRLDRIGLSQRFKQTRYN 421
Qy      389 FSNVIGSTTLLPQMDKCVNFIESALPYVVGKMFVGVVYQEDKEMMEELVGVVMAFID 448
Db      422 YRKALFTIWEYEVKMECEGVYVSNMENAAGSLYEAFPGDSKSWRELIDKRVTFVE 481
Qy      449 MLEKENEMWDAGTKRKAKERARAVALKVGYPEEIMNDTH--VNEDLKATFSEADYFGNV 506
Db      482 TLID-ELGMDDESKKKAQEKAMSIHQIGHDPYILLETWRRLDEBSNINFSEDLYFENS 540
Qy      507 LQTRKYLQSGDFWMLKRAVPKTEWPTNPTVNAFYASLTNPQIRPAGELQKPFPGTVP 566
Db      541 LQWLKGAQKSLRKLEKVDENIITGAAYVNAFISPNRQIVFPAGIILQPPF--SKQEP 599
Qy      567 RSLSYGALGIVYGHSEFTGHFDNNGRKYQXGNLDPWMTSESEKPEKTKCMINOYSNY 626
Db      600 QALNFGIGMVGHEITTHGFDNDGRNFDKXGNMMDWMSNFTQHFRQSECMITQYGNYS 659
Qy      627 WKKA-GLNYGKRTIGENTINDGILREAPRAYKWINDRQGLEBPLFGITFTNQLPF 685
Db      660 WDLADQNVGFTTLEBENIADNGVQAYKAYLKM--AEGKQDLPLGLDITHEQLTF 716
Qy      686 LSYAHVRCNSYRPEAREVQIGAHSPPOFVNGAISNSEEPKAFNCPNSTNRGMS 745
Db      717 INVAQWCGSYRPEPAIQSIKTDVHSPKRVLSQLNLAAFDTHCARGTPMH-PKER 775
Qy      746 CRUM 749
Db      776 CRVM 779

RESULT 2
US-10-147-928-6
; Sequence 6, Application US/10147928
; Publication No. US20030180877A1
; GENERAL INFORMATION:
; APPLICANT: SOLVAY PHARMACEUTICALS B.V.
; TITLE OF INVENTION: No. US20030180877A1 Human Enzymes of the Metalloprotease Family
; FILE REFERENCE: SPW 99.09 /H 99.26-WO
; CURRENT APPLICATION NUMBER: US/10/147,928
; CURRENT FILING DATE: 2002-05-20
; NUMBER OF SEQ ID NOS: 31
; SOFTWARE: Patentin Ver. 2.1
; LENGTH: 753
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-147-928-6

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Query Match      34.2%; Score 1352; DB 12; Length 753;
Best Local Similarity 38.4%; Pred. No. 1.2e-117;
Matches 293; Conservative 153; Mismatches 274; Indels 44; Gaps 18;

Qy      9 VENGKXNR-----GTRIALVVGGLTGLTIIPIVSGGLISQAKQEKCKRCE 61
Db      11 VESGGRGGQKRPGLBGLILLLVTAALVAGLYADRGGIPEAQVSEVCTTTPGCVI 70
Qy      62 AAAAIIISKVLSVDPGNFRFACDGNISNPIPEDMPSYGVYPMIRHNVDLKLKELLK 121
Db      71 AAARIIQNDMPTEPCDDFYQFACGGLRHHVLPETNSRYSIPDVJRDELLEVLKAVLEN 130
Qy      122 SISRRTTEAIQAKILYSSCMKEKALEKADAKPLHILHSPFRWPLESNTGPGWGS 181
Db      131 STA-KDPAVERKARTIYRSCMOSVTEKGSQPLDIL-EVVGGMFVAMDR-----WN 181

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Qy      182 ER--KESLLQTLATFRQYNSVFIRLYVSPDCKASNEHILKLDQATLSLAVREDYLDN 238
Db      182 ETVGLEWLEBQALAMNSQRRRLVLDLFIWMDQSSRIIIVIDQTLGMPRESEYFNG 241
Qy      239 STEAKSRDALYKRMVDTAIL--GANSR-----AEDMSVRLKIKABIMIPHENRT 292
Db      242 GSNRK-VREAYILOFWVSVAITLLREDANLPRDSCLVQEDWVQVLELTQAKATVQBERH 300
Qy      293 SE-AMYNKNISELSAM--IPQDWLGVIKKVIDTRLYPHLK-DIPSENVVVRVDPQYFK 348
Db      301 DVIALYHRNGLELQSGFGKGFNWLFIQTWLS-----VKIKLIPDEEVVYVGIPIYQ 355
Qy      349 DLFIILSEKRTIANYLVWVYSIIPULSRPQYRMEPSVIGTITLLQMDKCVN 408
Db      356 NLENIIDTYSARTIQNYLVWVRLDRIGLSQRFKQTRVAVRYRALFTIWEYEVKMECEGV 415
Qy      409 FIESALPYVVGKMFVGVVYQEDKEMMEELVGVVMAFIDMLEKENEMWDAGTKRKAKEX 468
Db      416 YVSNMENAAGSLYVREAFPGDSKSWRELIDKRVTFVEITLD-ELGMDDESKKKAQEK 474
Qy      469 ARAYLAVGYPEEIMNDTH--VNEDLKATFSEADYFGNVLQTRKYLQSGDFWMLKRAVP 526
Db      475 AMSIREQIGHDPYILLETWRRLDEBSNINFSEDLYFENSILQWLKGAQKSLRKLEKVD 534
Qy      527 KTEWPTNPTVNAFYASLTNPQIRPAGELQKPFPGTVPRLSYGALGIVYGHSEFTGHF 586
Db      535 PNLITGAAYVNAFISPNRQIVFPAGIILQPPF--SKQEPQALNFGIGMVGHEITTHG 593
Qy      587 DNNGRKDKGNLDPWMTSESEKPEKTKCMINOYSNYWKAG-LNYGKRTIGENIA 645
Db      594 DNNRNDPKGNMMDWMSNFTQHFRQSECMITQYGNYSWDLADQNVGFTTLEBENIADNG 653
Qy      646 DNGLEAREAFRAYKWINDRQGLEBPLFGITFTNQLPFSLYAHVRCNSYRPEAREVQ 705
Db      654 DNGVQAYKAYLKM--AEGKQDLPLGLDITHEQLTFINVAQWCGSYRPEPAIQSI 710
Qy      706 QIGAHSPPOFVNGAISNSEEPKAFNCPNSTNRGMSCRUM 749
Db      711 KTDVHSPKRVLSQLNLAAFDTHCARGTPMH-PKERCRVM 753

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RESULT 3
US-10-147-928-4
; Sequence 4, Application US/10147928
; Publication No. US20030180877A1
; GENERAL INFORMATION:
; APPLICANT: SOLVAY PHARMACEUTICALS B.V.
; TITLE OF INVENTION: No. US20030180877A1 Human Enzymes of the Metalloprotease Family
; FILE REFERENCE: SPW 99.09 /H 99.26-WO
; CURRENT APPLICATION NUMBER: US/10/147,928
; CURRENT FILING DATE: 2002-05-20
; NUMBER OF SEQ ID NOS: 31
; SOFTWARE: Patentin Ver. 2.1
; LENGTH: 779
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-147-928-4

```

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Query Match      33.7%; Score 1333.5; DB 12; Length 779;
Best Local Similarity 39.2%; Pred. No. 7e-116;
Matches 284; Conservative 145; Mismatches 258; Indels 37; Gaps 17;

Qy      42 QGLSLQAKQCYCKPEICIAAAAILSKVLSVDPGNFRFACDGNISNPIPEDMPSY 101
Db      77 RGIPEADQVSEVCTTTPGCVIAAARIIQNDMPTEPCDDFYQFACGGLRHHVLPETNSRY 136
Qy      102 GYVPMLEHNVDDLKLKELLKESISRRTTEAIQAKILYSSCMKEKALEKADAKPLHILIR 161
Db      137 SIPVLRDELLEVLKAVLENSTA--KDPAVERKARTIYRSCMOSVTEKGSQPLDIL- 193
Qy      162 HSPFRWPLESNTGPGWGSER--KESLLQTLATFRQYNSVFIRLYVSPDCKASNEH 218

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Db      19  EVWGMPVAMDR-----WNEITGJEWELERGLALMNSQFRRVYLIDFIWINDQNSRR 247
Qy      219  ILLKDDQATISLAVREYLDNLSSTKASRYDALYKENVDTAVLL--GANSR---AEDMK 272
Db      248  IIVIDPPTGMPREYEFYFGSGNRK--VREAYIQFVYSVATLLREBANI,PROSCVLOEDDM 306
Qy      273  SVYRLKEIKAEIMIPHENTSE--AMNKNKNSIELSAM--IQPDMIGYKVIDTRLYPH 329
Db      307  QVLELEQLAKAVPDEERHDVIALYHRGLELOSQGLKGFNWTLPICQVLS----- 361
Qy      330  LK-DISSENVVVRVPOYFKDLFRLLGSRKKTIANYLWEMVYSRIPI,SRPQYKMLE 368
Db      362  VKIILPEDEVVYGIPLYQNLNENIIDTYSARTIONYLWMLVLDRLIGLSLOFQDTRVN 421
Qy      389  FSRVIGQTTLLQWKNCKNFTESALPYVYGMFYDYVPODDKEMMELVSGRAFI 448
Db      422  YRRALPFTWEEVVRBECVGYNSNMENAVSLYVREAPPDQSKSMRELIDKRVTFVE 481
Qy      449  MLEKEMWMDAGTKRKAKKARAVLAKVYPPFINDTH--VNEDLKAIXSEADYEGNV 506
Db      482  TLD-ELGMDDESKKKAQKRAMSIRQIOHPYILLENRRRLDEYSNLSNSELTYENS 540
Qy      507  LQTRKTLAQSDFWTLKAVPKTEMTNPTTNAFYSASTNOIRPPAGELQKPFWGTETP 566
Db      541  LQWLKVGASRLKRLKEKVDPNLMIIGAAVNAFSPRNRQIVPPAGILOPFPP-SKEOP 599
Qy      567  RSLSYGALIGIVYHEPETHFGPDNNGRKYDKNGLDPMWSTSEBKPKEKTKIMIQYANY 626
Db      600  QALNFGIGMIVGHEHTHGFDDNGRFPDKNGMDMWSNFTQGRFRESSEMTIQYANYS 659
Qy      627  WKTAG-LNYKSGKTTGENTADNGGLKEAFRAYRKMINDRQGLEPPLLPGITFNNQLFF 665
Db      660  WDLADEQNVGFWTTLGENTADNGGYQAQAKALIKMM--AAGQXQOQLPGIDLTHEOLF 716
Qy      686  LSAVHARCNSYREARBEQVQGAHSPPOFRNGALISSEBFOKAFNCPNSTMNRGMD 745
Db      717  INTAQVWCGSRDEPAIQISIKTDVHSLKTRVLSLQNLAAADPFOHARSTPMH-PKER 775
Qy      746  CRLM 749
Db      776  CRWV 779

RESULT 4
US-09-905-846-2
; Sequence 2, Application US/09905846
; Patent No. US20020102707A1
; GENERAL INFORMATION:
; APPLICANT: Ian Dennis Harrow
; APPLICANT: Peter Steacy
; TITLE OF INVENTION: Compounds for the treatment of sexual dysfunction
; FILE REFERENCE: PCS10926PME
; CURRENT APPLICATION NUMBER: US/09/905,846
; CURRENT FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: 0017387.2
; PRIOR FILING DATE: 2000-07-14
; PRIOR APPLICATION NUMBER: 60/220,908
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 779
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-905-846-2

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Query Match      33.7%; Score 1332.5; DB 10; Length 779;
Best Local Similarity 39.2%; Pred. No. 8.7e-116;
Matches 284; Conservative 145; Indels 37; Gaps 17;

OY 42 OGLSLQAKQKCELCPECEIAAALLSKYNLSVDPDQNFPRACQGMISNNIPEDMSY 101
:::|||||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|

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Dh	77	RGIPEAQEVSVCOTTPGCVIAAARLTQMMDPTTECDDFYQFACGMLRHHVIBETNSRY	136
Qy	102	GVPYPLRHHVNDLKTKELLEKSISRREDTBAIQAKILYSSGMKEALEKADAKLHILR	161
Dh	137	SIDYVRLDELEVLKAVIENSTA--KDPAAVEKARTLFRSOMOSVIEKGSQPLDIL-	193
Qy	162	HSEFRWPVLESINIEGWMSR--KFSILDTLATFRQYNSVFILYVSPDKASNEH	218
Dh	194	EYVGGMFVAMDR-----WNEVGLFEMLEBEQOLMMSQFRRRLDILFTINDQNSRH	247
Qy	219	ILKLDQATLSLVRBEDYLDNSTEAKSYDALKYEMVDTAVLL--GANSR---AEHDK	272
Dh	248	IYIDPPTGMPRETEYFNGSGNRK-VREAYLQFVSVATLLREDATLPRSCVQEDMV	306
Qy	273	SVYRLKIKLAIMIPHEKRTSE-AMYNKINISELSAM--IPQFMLGYIKVYIDTRYLPH	329
Dh	307	QVLELTQAKATVQOEBRHDIYALYHHMGLELOSCGLGFMWLEIQTVALSS-----	361
Qy	330	LK-DISPSENVVVRVQFQKDLFRILGSEKKTANTLYVWRMVSRIIPNISRRFQRYWLE	388
Dh	362	VKIKLIPDERVVVYVGIPYLQNLNENIDYVSARTIONTYLWRLVLDRIGSLOREKDTRVN	421
Qy	389	FSRVIGGTTLLPOMDKCNPIESALPYVGMFMDYVQFQDKEMMBELVGGVRAAFID	448
Dh	422	YKRAALGTINVEBYRRECVGIYNSMKEAASLYRRAFPBDSASMRBLIDKRTYVE	481
Qy	449	MEKENEMWDACTKRAKAKARAVLAKYGEPEFIMNDTH--VNEDLKAFSEADYGNV	506
Dh	482	TLD-ELGMWDESKKKAQOKAMSIREQIGHDPYILLENNRLIDREYNINMFSEBLYENS	540
Qy	507	LQRRKTLAOSDFMLRKAVPKTEWETNTNTYNAFPASATNOIRPAGELQFPWGTREYF	566
Dh	541	LQNLKAKGARSIRKIRKBYDPWMLTGAAYNAHISPRMIOYVPAIGLQPPFF-SGEQF	599
Qy	567	RSLSYGAIGVIGHEBTGFDNGNGKXYDKNGNLDPMWSTESSEKFKERTKCMINOYANY	626
Dh	600	QALNFQGIQMWIGHEITGFDNGNFPDNGNMMDWMSNFTQHFRRQSECMIIQYGNYS	658
Qy	627	WKKAG-LANKGRKTLGGINADNGGLREAFRAYRWINDRQGLTEBPLLPGITFPNNOLF	685
Dh	660	WDLADEQNGNNTLNGENIADNGGVRQAYKAYLKM--AAGGXQOQPLGDLTHEQLFF	716
Qy	686	LSYAHRCNSYRPEARBEQVQIGASHPOQFVNGAISNSEBFOKAFNCPPNSTNWRGMS	745
Dh	717	INVAQWQCSYRPFPAISIKTUDVHSPKRYVLSGLQMLAAFDATPHCARGTPMH-PKER	775
Qy	746	CRUM 749	
Dh	776	CRVM 779	

RESULT 5
 US-10-192-407C-2
 Sequence 2, Application US/10192407C
 Publication NO. US20040014131A1
 GENERAL INFORMATION:
 APPLICANT: Pfizer Inc.
 APPLICANT: Neil Benson
 APPLICANT: Helen Frances Boyd
 APPLICANT: Leonard Gabriel Contillo
 APPLICANT: David Harlan Singleton
 APPLICANT: Peter Stacey
 TITLE OF INVENTION: Assay Methods
 FILE REFERENCE: PC22036ANIS
 CURRENT APPLICATION NUMBER: US/10/192,407C
 CURRENT FILING DATE: 2002-07-09
 PRIOR APPLICATION NUMBER: US 09/948,429
 PRIOR FILING DATE: 2001-09-07
 PRIOR APPLICATION NUMBER: GB 0017387.2
 PRIOR FILING DATE: 2000-07-14
 PRIOR APPLICATION NUMBER: US 09/905,846
 PRIOR FILING DATE: 2001-07-13
 PRIOR APPLICATION NUMBER: US 60/220,908

```

; PRIOR FILING DATE: 2000-07-26
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 779
; TYPE: PRF
; ORGANISM: Homo sapiens
US-10-192-407C-2

Query Match      33.7%; Score 1332.5; DB 12; Length 779;
Best Local Similarity 39.2%; Pred. No. 8,7e-116;
Matches 284; Conservative 145; Mismatches 258; Indels 37; Gaps 17;

QY 42 QGLSLQAKQCYCKPCICIAAAALISKVLSVPCDNFRFACDGMISNPNIPEDMPSY 101
DB 77 RGIPBAQVSESVCTTPGCVIAAARILQMDPTTPECDYQFACGGLRRHVIPETMSRY 136
QY 102 GVPFMRHNVDLKLELSEKISRRTDEAIQKAKIYSSCMNEKAIKADAKPLHLIR 161
DB 137 SIFDLRDELLEVLKAVLENSTA--KDRPAVEKARTLYSCMNOQVIEKGSOPFLDIL- 193
QY 162 HSPFRMPVLESNIGPEGWMSR--KPSLIQTATFRGOYSNVFIRLYSPDDKASNEH 218
DB 194 EVVGSMFVAMDR-----MNETVGLWELEERQALMNSQFNRVYLIDLFIMDDQNSSRH 247
QY 219 ILKLDQATLSLAVEDYLDNSTEAKSYRDLAYKEMVDTAVL--GANSR-----AEHDK 272
DB 248 IITIDQPTLGMPSREYTFNGGSNRK--VREAYLOFMVSVATILREDANLPDSCLVGEDMV 306
QY 273 SVLRLEIKIAEIMI PHENRTSE--AMYNKNISLSAM--IPQDMLGYIKKVIDTRELXPH 329
DB 307 QVLELETOAKATVPQERHDVIALYHRMGLLELOSGFGLKGFNMTLFIQTVLSS----- 361
QY 330 LK-DISSENVVVRVPOYFQDLFRILGSEKRTIANTLVWRMYSRIPLNSRFOYRWLE 388
DB 362 VKIKLPDEBRYVVGIPYLONLNIIIDTYSARTIÖNVLWRVLDRIGLSQFQKOTRVN 421
QY 389 FSRVIOGTITLLPQMDKCVNFIESALPYVVGKMFVVYVFOEDKKNMSELYEGRWAFID 448
DB 422 YRKALFGTMBEVRWRECVGVNSNMENAVGSLYVEAFPGDSKSMVRELIDKRTVFE 481
QY 449 MLEKENEMDAGTKRKAKEKARAVLAKVYEPFIANDTH--VNEDLKAIFSEADYFGNV 506
DB 482 TLID-ELGMDMBESKKKQKQERKMSIREQIGHDYILSEMRNRIDEBYSNINFSDDLFEYS 540
QY 507 LQTRKYLAQSDPFMLRKAVPKTEWFTNPTVNAFYASASTQIIRFPAGELQKPFMGTEYP 566
DB 541 LQNLKVGARQSLRLRERKVDPNLMIIGAAYVNAFYSNRQIYFPAGIILQPPFF-SKEOP 599
QY 567 RSLSYGAIGVIVGHEFTHGFDNNGRKTYDKNGNLDPMWSTSESEKFEKTKCMINQYSNY 626
DB 600 QALNFGGIGMVIIGHIETHGFDNGRNDKNGNMMDWMSNSTQHFREOSCMIIYQYGNYS 659
QY 627 WKKAG-LNVKGRKTLGENIADNGLRAPRAYRKWINDRQGLEBPLLPITFTNNQOLF 685
DB 660 WDLADEONVNGFTLGENIADNGGVKAYKAYLKM--AEGKDOQLPELDLTHQOLF 716
QY 686 LSYAHVCNSYRPPAARQVQIGASHPQFRVNGAISNSEEFQKAFNCSPNSTNRGMS 745
DB 717 INYQWVGCSYRPFALQSIKTVDHSPDKYRVLSLQNLAAPADTFHCARGTGMH-PKER 775
QY 746 CRIM 749
DB 776 CRIM 779

```

RESULT 6
US-10-017-273A-6

; Sequence 6, Application US/10017273A
; Publication No. US20030119714A1
; GENERAL INFORMATION:
; APPLICANT: Pfizer Inc.
; APPLICANT: Naylor, Maedair M.

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; APPLICANT: Van Der Graaf, Pieter H
; APPLICANT: Wayman, Christopher P.
; TITLE OF INVENTION: Treatment of Male Sexual Dysfunction
; FILE REFERENCE: PC22013
; CURRENT APPLICATION NUMBER: US/10/017,273A
; PRIOR FILING DATE: 2001-12-12
; PRIOR APPLICATION NUMBER: US 60/265,358
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: GB 0030647.2
; PRIOR FILING DATE: 2000-12-15
; PRIOR APPLICATION NUMBER: GB 0108730.3
; PRIOR FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: GB 0120679.6
; PRIOR FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: US 09/905,846
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/291,722
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 09/895,367
; PRIOR FILING DATE: 2001-06-29
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6
; LENGTH: 779
; TYPE: PRF
; ORGANISM: Homo sapiens
US-10-017-273A-6

Query Match      33.7%; Score 1332.5; DB 15; Length 779;
Best Local Similarity 39.2%; Pred. No. 8,7e-116;
Matches 284; Conservative 145; Mismatches 258; Indels 37; Gaps 17;

QY 42 QGLSLQAKQCYCKPCICIAAAALISKVLSVPCDNFRFACDGMISNPNIPEDMPSY 101
DB 77 RGIPBAQVSESVCTTPGCVIAAARILQMDPTTPECDYQFACGGLRRHVIPETMSRY 136
QY 102 GVPFMRHNVDLKLELSEKISRRTDEAIQKAKIYSSCMNEKAIKADAKPLHLIR 161
DB 137 SIFDLRDELLEVLKAVLENSTA--KDRPAVEKARTLYSCMNOQVIEKGSOPFLDIL- 193
QY 162 HSPFRMPVLESNIGPEGWMSR--KPSLIQTATFRGOYSNVFIRLYSPDDKASNEH 218
DB 194 EVVGSMFVAMDR-----MNETVGLWELEERQALMNSQFNRVYLIDLFIMDDQNSSRH 247
QY 219 ILKLDQATLSLAVEDYLDNSTEAKSYRDLAYKEMVDTAVL--GANSR-----AEHDK 272
DB 248 IITIDQPTLGMPSREYTFNGGSNRK--VREAYLOFMVSVATILREDANLPDSCLVGEDMV 306
QY 273 SVLRLEIKIAEIMI PHENRTSE--AMYNKNISLSAM--IPQDMLGYIKKVIDTRELXPH 329
DB 307 QVLELETOAKATVPQERHDVIALYHRMGLLELOSGFGLKGFNMTLFIQTVLSS----- 361
QY 330 LK-DISSENVVVRVPOYFQDLFRILGSEKRTIANTLVWRMYSRIPLNSRFOYRWLE 388
DB 362 VKIKLPDEBRYVVGIPYLONLNIIIDTYSARTIÖNVLWRVLDRIGLSQFQKOTRVN 421
QY 389 FSRVIOGTITLLPQMDKCVNFIESALPYVVGKMFVVYVFOEDKKNMSELYEGRWAFID 448
DB 422 YRKALFGTMBEVRWRECVGVNSNMENAVGSLYVEAFPGDSKSMVRELIDKRTVFE 481
QY 449 MLEKENEMDAGTKRKAKEKARAVLAKVYEPFIANDTH--VNEDLKAIFSEADYFGNV 506
DB 482 TLID-ELGMDMBESKKKQKQERKMSIREQIGHDYILSEMRNRIDEBYSNINFSDDLFEYS 540
QY 507 LQTRKYLAQSDPFMLRKAVPKTEWFTNPTVNAFYASASTQIIRFPAGELQKPFMGTEYP 566
DB 541 LQNLKVGARQSLRLRERKVDPNLMIIGAAYVNAFYSNRQIYFPAGIILQPPFF-SKEOP 599
QY 567 RSLSYGAIGVIVGHEFTHGFDNNGRKTYDKNGNLDPMWSTSESEKFEKTKCMINQYSNY 626
DB 600 QALNFGGIGMVIIGHIETHGFDNGRNDKNGNMMDWMSNSTQHFREOSCMIIYQYGNYS 659
QY 627 WKKAG-LNVKGRKTLGENIADNGLRAPRAYRKWINDRQGLEBPLLPITFTNNQOLF 685

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Db 660 KMLAEONNGNTTNGENIADNGVROAKAYLAKM---AEGCKOQPLGDLTHEQLF 716
 Qy 686 ISYAVHRCNSYRPEARAEQVQIGASPPQFRVNGAISNSEFQKAFNCPNSTNMGRGDS 745
 Db 717 INYAQVWGSGYRPEARAIQSIKTVDHSPKRYVLSGLQMLAAPADTHCARGTPEH-PRER 775
 Qy 746 CLM 749
 Db 776 CRVM 779

RESULT 7

US-10-147-928-2
 ; Sequence 2, Application US/10147928
 ; Publication No. US20030180877A1
 ; GENERAL INFORMATION:
 ; APPLICANT: SOLVAY PHARMACEUTICALS B.V.
 ; TITLE OF INVENTION: No. US20030180877A1 Human Enzymes of the Metalloprotease Family
 ; FILE REFERENCE: SPW 99.09 /H 99.26-WO
 ; CURRENT APPLICATION NUMBER: US/10/147,928
 ; NUMBER OF SEQ ID NOS: 31
 ; SOFTWARE: Patent In Ver. 2.1
 ; SEQ ID NO 2
 ; LENGTH: 691
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-10-147-928-2

Query Match 33.4%; Score 1322.5; DB 12; Length 691;
 Best Local Similarity 39.5%; Pred. No. 63e-115;
 Matches 281; Conservative 143; Mismatches 251; Indels 37; Gaps 17;

Qy 54 CLKPECIEAIAAISKVNLSDPCNFFRACDGTISNNPIPEDMPSYGVTPMIRANVDL 113
 Db 1 CTPPCVIAAARILQMDPTTEPCDDFYQACGGLRRHVIPETNSRSIFDVLRDELAV 60
 Qy 114 KLEKLEKSIHRDPTAIOKAKILYSSCMKEKAEKADAKPLHILHSPFRPVLESN 173
 Db 61 ILKAVLENSLA-KORPAVERKARTIYRSCNQSVIEKGSQPLDIL-EVVGMPVAMDR 117
 Qy 174 IGPEGVSEER--KESLIQTATFFGQYSNSVFIRLYVSPDKASNEHILKDAATSLA 230
 Db 118 -----WNEIYGLWELEERKQALMNSQTRRYLIDLFIMNDQSSRIIYIDPFTIGMP 171
 Qy 231 VREDYLDNSTEAKSYRADLYKFMVDTAVTL--GANSR---AEHDKSVLRLEIKIAI 284
 Db 172 SREYVFNQSNRK-VREAYLOPMVSATILKEDANLPDSCGLVQEDMQVLEETQLAKA 230
 Qy 285 MIPHEINTSE-AMYNKMISELAM--IPQPMIGYIKKVIDTRLYPHLK-DISPSENV 340
 Db 231 TVPQERHADVATLYHRMGLLELOSQGLKGFMTLFIQTVLS-----VKIKLPDBEV 285
 Qy 341 VRVPGYFQDLPRILGSEKRTIANTLVKRMYSRIPLNSRRQYRMLSEFVIGTTTL 400
 Db 286 VYGIYLONLNITITYSARITQNTLVRLVLDRIQSGISQPKOTRANVRALGTVWEE 345
 Qy 401 PQMDKVNFISSALFYVVGKMFVDVYFQEDKKEWMELEVEGRVAFIDMLEKENEMDAG 460
 Db 346 VWRRECQGVNNSMENAVGSLYVREAFPGDSKSVRELIDKVRVTFVETLID-ELGMDDE 404
 Qy 461 TKRKAKEKAAVLAAGVPEPIINDTH--VNEDLKATFSAADYFGNVLQTRKTLAOSDF 518
 Db 405 SKKKQOEKAMSTRIOGHDPDYLEEMNRRLDEEYSNNLFSDDLFFENSLQMLKGAQRSL 464
 Qy 519 FWLRKAVETWFTPTTVNAFYASITQNIFFPAGELQKFPFGTGYEPRSLSYAGIV 578
 Db 465 RLKREKVDPMIIGAAYVNAFYSNRMQIVFPAGIILQPF--SDEQQAALNFGIGMVI 523
 Qy 579 GHEFHFGDNNGRKIDKNGLDPMWSTSESEKFEKTKCMINQSNYTKKAG-LANYK 637
 Db 524 GHEITHGDDNGRNDKNGNMDWMSNFSJQHFROSECMITQYQNGYSWDLAEQONVGF 583

Qy 638 RTIGENIADNGGLREAFARVKWINDRQGLEPILPGITFTNNQFLFTSYAVHRCNSYR 697
 Db 584 NTIGENIADNGVROAKAYLAKM---AEGCKOQPLGDLTHEQLFINYAQVWGSGYR 640
 Qy 698 PEARAEVQIGASPPQFRVNGAISNSEFQKAFNCPNSTNMGRGDSCLM 749
 Db 641 PEARAIQSIKTVDHSPKRYVLSGLQMLAAPADTHCARGTPEH-PRERCRVM 691

RESULT 8

US-10-274-639-13
 ; Sequence 13, Application US/10274639
 ; Publication No. US20030232349A1
 ; GENERAL INFORMATION:
 ; APPLICANT: INCYTE GENOMICS, INC.
 ; APPLICANT: DELGEMANE, Angelo M.; GANDHI, Ameena R.
 ; APPLICANT: HAFALIA, April J.A.; LU, Dzung Aina M.
 ; APPLICANT: PATTERSON, Chandra; TRIBOUTY, Catherine M.
 ; APPLICANT: DAS, Debopriya; KALICK, Deborah A.
 ; APPLICANT: NGUYEN, Daniel B.; LEE, Ernestine A.
 ; APPLICANT: KHAN, Farrah A.; YUE, Henry
 ; APPLICANT: AU-YOUNG, Janice K.; GRIFFIN, Jennifer A.
 ; APPLICANT: POLICKY, Jennifer L.; RAMKUMAR, Jayalekshmi
 ; APPLICANT: YANG, Junming; THANGAVELU, Kavitha
 ; APPLICANT: DING, Li; KEARNEY, Liam
 ; APPLICANT: BAUGHER, Mariah R.; BOROMSKY, Mark L.
 ; APPLICANT: SANJANMALA, Madhusudan M.; YAO, Monique G.
 ; APPLICANT: BURFORD, Neil; WALIA, Narinder K.
 ; APPLICANT: LAL, Preeti G.; LEE, Sally
 ; APPLICANT: TODD, Stephen; LO, Terence P.
 ; APPLICANT: TANG, Y. Tom; ELIOTT, Vicki S.
 ; APPLICANT: AZIMZAI, Yalda; LU, Yan
 ; TITLE OF INVENTION: PROTEASES
 ; FILE REFERENCE: PI-0167 USA
 ; CURRENT APPLICATION NUMBER: US/10/274,639
 ; CURRENT FILING DATE: 2002-10-18
 ; PRIOR APPLICATION NUMBER: PCT/US01/22397
 ; PRIOR FILING DATE: 2001-07-17
 ; PRIOR APPLICATION NUMBER: US 60/220,063
 ; PRIOR FILING DATE: 2000-07-21
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 ; PRIOR FILING DATE: 2000-08-04
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 ; PRIOR FILING DATE: 2000-08-11
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 ; PRIOR FILING DATE: 2000-08-16
 ; PRIOR APPLICATION NUMBER: US 60/227,568
 ; PRIOR FILING DATE: 2000-08-23
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 ; SOFTWARE: PERL Program
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 ; LENGTH: 742
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; FEATURES:
 ; NAME/KEY: misc feature
 ; OTHER INFORMATION: Incyte ID No. US20030232349A1 7473165CD1
 US-10-274-639-13

Query Match 33.4%; Score 1321; DB 12; Length 742;
 Best Local Similarity 38.2%; Pred. No. 9.7e-115;
 Matches 292; Conservative 153; Mismatches 273; Indels 46; Gaps 20;

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 Db 2 VESAGSAGGKRRGFLGGLILLLLVTAALVALGVADRRGIPRAQRYSVCTTPGCVI 61
 Qy 62 AAAAIIKYNLSDPCNFFRACDGTISNNPIPEDMPSYGVYFWLRANVDLKLKELLEK 121
 Db 62 AAARILQMDPTTEPCDDFYQACGGLRRHVIPETNSRSIFDVLRDELAVILKAVLEN 121

QY 122 SISRREDTEAIOXAKILYSSCMMKEAIEKADAPLHLIRHSPFWPVLSENIIGEGWVS 181
DB 122 STA--KDRPVRKAFILYRSCMMQSVIEKSGOPLDIL-ETVGGWPVAMDR-----WN 172
QY 182 ER---KPSLIQTLATRGQYNSVFRILYVSPDDKXSNHILKLDQATLSLAVREDYLDN 238
DB 173 ETYGLMELEBROJALMNSQPNRVLIDLFWNDQSSHHIYIDPFLGMPSSREYFNG 232
QY 239 STEAKSYRDLVYKPMVDTAVLL--GANSR---AEDMKSVLRLEIKIAEIMPHENKT 292
DB 233 GSNRK-VREAYLOFMVSVALTLREDANLPDSCLVGEDMVOYLELQATKATVQBERH 291
QY 293 SE-AMNKNMISLSAM--IPQDMGYIKVYDITLYPHLK-DISPSNNVYVRPQYK 348
DB 292 DVIALYHRMGLBLOQFGKGFNMWTLFIQTVLSS-----VKKILPDEVVVYGIPIQ 346
QY 349 DLFRIIGSEKKTIVANLYVRMYSRIPIULSRFRQYRMLFESRVIQSTTLTPQMDKVN 408
DB 347 NLNIIIDTYARTIQVLYVRLVLDIGLSQCFKOTRYNKKALFGTVEEVRRECVG 406
QY 409 FTSALPYVYGVKVFVDYFOEDKKEEMEBLVGVMAFIDMLKKNEMMDAGTKRAXEK 468
DB 407 YVNSNMENAVGSLYVEEAPFGDSKSV-ELIDKYRTVFEITLD-BLGWMBESKKAQEK 464
QY 469 ARVAVLKVGYPERFIMNDTH--VNEDLKAIKFSADYFGVVLQTRKYLAQSDPFWMRKXVP 526
DB 465 AMSIRQIHPDYLLEEMNRRLDEYSNVSFSDLYFENSLOMKVGAQSRSLKREKV- 523
QY 527 KTEWFTNPTTVNAFYASASTNOIRFPAGELQKPFWGTETVPSLSYGAIGVIGHEFTGCF 586
DB 524 DPLIIGAAVYVAFYPPNRQIVFPAGIILQPPF-SKEOPALNFGIGIMVIGHEITGCF 582
QY 587 DNNGRKVDKNGNDPMWSTSESEKEXKCMNOGVSNTYMKAG-LYNGKRTTGENIA 645
DB 583 DDNGRPFDKGNDMWSNFTSHFRQSSCMYQIGNSWDLADQONNGNTTGENIA 642
QY 646 DNGLEAFRAYKRWINDRQGLEBPLIPQITFTNNQLEFSLYAHVRCNSYRPEARQV 705
DB 643 DNGVRAQAYKAYKMW---AEGKDOQLPGLDITHTHQLFFINVAQWGSYRPEPALQSI 699
QY 706 QIGAHSPQPRVNGALSNSEEPKAFNCPNPSNMRQMSCLM 749
DB 700 KDVHSPKXKRVGLSLQNLAAFPDTPHCARGTPMH-PKERCYMW 742

RESULT 9
US-09-978-295A-526
Sequence 526, Application US/09978295A
Patent No. US2002015606A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnovers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerltsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Nadler, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann

APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
TITLE OF INVENTION: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2630P1C11
CURRENT APPLICATION NUMBER: US/09/978, 295A
PRIOR FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
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;; PRIOR APPLICATION NUMBER: 60/085697

Query Match 30.9% Score 1223; DB 10; Length 736;

Best Local Similarity 35.2%; Pred No. 1,6e-105; Indels 40; Gaps 18;

Matches 267; Conservative 145; Mismatches 307; Indels 40; Gaps 18;

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QY 56 KPECIEBAALISKNLSVPCDNFRFACDGMISNNIPEDMSYGVYPMLRNVLDKL 115
DB 67 TEACTRVAGKILIESIDRVVSPCEDPYOPSCGWMIRNLPGRSRMNTFNSLMDONAIL 126
QY 116 KELLERKISRRDTEAIQAKILYSSCNERKAIKADAKPLILIRHSPFRPYLESNIG 175
DB 127 KEHLLENT--TPNSSBAEKQRFYLSQVRIEELGAPLRDIL-----EKIG 174
QY 176 P---EGWSEKRSLSLQTLATFRGOYSNVTIRLYVSPDDKASNEHIKLDQATLSAVR 232
DB 175 GNNITGPWDONF--MEYLKAVAGTYRATPEFTYISADSKSSNSNVIQVDSGLFLPSR 232
QY 223 EDYLDNSTEAKSYRDATYKFWVDYVLGANSRRAEHMKSVLEIKIAEIMTPH-ENR 291
DB 223 DYLL-NRANKEVLYAYIDYMBELMLGSRPTSTREMOQVLEHQLANITVPQDGR 291
QY 222 TSEAMTNTONTISELSAMIPQDWTGYIKKVIDTLYPHLKDISSEENVYAVPOYFQDLF 351
DB 222 DEKRIYHOSISELQALAPSMDWIEFLISLP-----LELSISEPVAVYGMDYLQVVS 345
QY 352 RIGSERKKTITANYLVMMVYVSRIPNLSRRFOYMLERSVIOGT--TTLIPQMKCVAFI 410
DB 346 ELINRTESILANTILIMLVQKTTSSLDRRRESAQEKLFTLYGTKKSCVVRMOTCISNT 405
QY 411 ESALPYVVGKMPVDVYFQEDKKEKMEELVEGVNAFIDMLEKENEWDAGTYRAKAKAR 470
DB 406 DDLGALGSLFVVKATFDRQSKELAGWISIRFAFEAL--GOLVMDDEKTRAKAKERAD 464
QY 471 AYLAQVGYEFTMDTHNEDLKAIKTSEADYFGNVIQTRKYLSQSPFMLRKAVPKTEW 530
DB 465 AIYDMIGFPDILKEXELDYYDGEISEDSFPQWMLNTVYFSKAWADQLRKPSRDQW 524
QY 531 FTNPTTVAFYASATNOJRPAGELQKFFWGTVEYPSLSGALGVIVGHEFTGPDNG 590
DB 525 SWTPQTVAAYYLFTWNEIVFPAGILQAFY--ARNHPKALNKGIGVVMGHELTAFDQOG 583


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Query Match      30.3%; Score 1223; DB 10; Length 736
Best Local Similarity 35.2%; Pctd. No. 1,6e-105;

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	Matches	267;	Conservative	145;	Mismatches	307;	Indels	40;	Gaps	18
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QY	56	KPECEEAALAILSKYNLVSDPCDNFFPACDGMISNPPIDEDMPSGYVFWLRHWVDKL	115							
Dd	67	TBACIRVAGKILLESIDRVSPCEDPYQSOGSMIHRNLPLDGRSRWNTFNSLMQNALIT	126							
QY	116	KELLEKSISRRODTREALTKYLVSQNMNEKAIEADAKPLHLIHRSDFRWFLVLESNIG	175							
Dd	127	KHLLENT-TFNSSSEAEKQRPFYLSCTQVERIBELGAQPIRLDI-----EKLG	174							
QY	176	P---EGVSENKFSLLOTLATFRGOYSNVFRLVSPDDDKASNHHLLKDQATLSLAVR	232							
Dd	175	GNMTTGPMDQNF--MEVLKAVAGRTPPTFTYTISDSKSSNSNVQVDSGLFLSR	232							
QY	233	BDYLDNSTEASKSYRDALYKFWDTAIVLLGANSRAEHDMKSVLRLEIKIAIMIPH-ENR	291							
Dd	233	DYYU-NRTANKEVLTAYLDYVEELGMLLGGRPSTRQOQVLEHRIOLANTIVAQDOR	291							
QY	232	TSEMYNNOMNISLSAMIPOFDWLGIYKQVDTRLYPHLKDISPENNYVVRPOYFKDLF	351							
Dd	232	DEBKTYHKMSISEQLAPSPMDWEIFLSFP-----LEISDEEPVVYGMDTLOQVS	345							
QY	352	RILGSERKKTIANLYVMRMVYSRIPNLSRRFOYMLBFSSVIQGT-TLLPQMDCXVFI	410							
Dd	346	ELINRTEBSILNNTLIMVLVOQTSSLDRRFESAQBKLETLTGKKS CVPRWQCISNT	405							
QY	411	ESALPYTVGKAFVDVYFOEDCKEMEEIVEGVRNAFITMLEKENEMWDAGTKAKAKAR	470							
Dd	406	DDAGFALGSLFYVATPDROSKEIAEGMISIRKTAFEBAI-GQLVMDEKTRQAACEAD	464							
QY	471	AVLKAVGEPEITMDTHVEDLKAIKFSKADYFGVNLQTRKIAQSDPFMLRKAVPKTBW	530							
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Dd	642	KAAVYAAYAML--KHG-EEQQLPVAVGLTNQLPFGVGAQWCWSVRTYESHSGLVTDPH	698							
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Dd	699	SPARFRVLTGISNRDPLRHFGCPVGSMPNPG-QICEYW	736							
<p>RESULT 11 US-09-978-192A-526 Sequence 526, Application US/0978192A Patent No. US2002017553A1 GENERAL INFORMATION: APPLICANT: Ashkenazi, Avi APPLICANT: Baker Kevin P. APPLICANT: Botstein, David APPLICANT: Deemeyers, Luc APPLICANT: Baton, Dan APPLICANT: Ferrara, Napoleon APPLICANT: Filvaroff, Ellen APPLICANT: Fong, Sherman APPLICANT: Gao, Wei-Qiang APPLICANT: Gerber, Hanspeter APPLICANT: Gerritsen, Mary B. APPLICANT: Goddard, Audrey APPLICANT: Goodwaki, Paul J.</p>										

APPLICANT: Grimaldi, J. Christopher
 APPLICANT: Gurney, Austin L.
 APPLICANT: Hillan, Kenneth J.
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 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
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 PRIOR APPLICATION NUMBER: 60/085697

Query Match 30.9%; Score 1223; DB 10; Length 736;
 Best Local Similarity 35.2%; Pred. No. 1.6e-105;

Matches 267; Conservative 145; Mismatches 307; Indels 40; Gaps 18;

2 EAETGSSV-ETGKARKGRTRIAL-VYFVGTVLGTILF-LVSGQL-LSLQAKQRYCL 55
 7 ELGAGSNVGFQKTRQLGSRTOLELVAGSLIALALLGCLVALGVQHRDPSHSTCL 66
 56 KPCIEEAAALISKVNLSDPCDNFFRACDGMISNNPIEDMPSYGVYWLKHNVDKL 115
 67 TEACIRVAGKLESLEDGVSCEDFYQPSCGGWRNPLPDGRSRMNTFNSLMDQNAIL 126
 116 KELLKESISRRDTEALOKAILYSSGMEKEIAEKADAKPLHLIRASPRMVLSEINIG 175
 127 KHLIENT-TENSSEAEKQTRFLSCQYRIEELGAQPLRDI-----EKIG 174
 176 P---EGVMSKSESLQTLATFRQYNSVIRLYVSPDDKASNEHILKLDQATLSIAVR 222
 175 GWNITGPDQDNF-MEVLKAVAGTYRATPFYIYIADSSSSNSNYIQVDQGLFLPSR 232
 233 EDYLDNSTEAKSYDALYKFWVDYAVLLGANSRPAEDMKSVALLEKIKAIMIPH-ENR 231
 233 DYVL-NNTANKEVLYAVIDYMEELGMLGSPSTRBQCVLELEQLANTIVPDQGR 231
 292 TSEAMNKNMISELSAMIPQFDMLGYIKVYIDRLYLKLDISPSENVVVRVQYFEDLP 351
 292 DEEKIYHMSISELQALAPSMWDEFLSLSP-----LELSSEFVVVYVGMVYQVVS 345
 352 RIISERKKTANTLYVMVYSRIPLNSRQYRWLEFSRYIOQT-TTLIPQDKCNFL 410
 346 ELIIRTEPSILANTLYMIVYKTTSSIDRRPESQOEKLELTIVYTKKSCVPRNQTCSNT 405
 411 ESALPYVVGKATFVYQEDKEMMEELVEGVNAFIDMLEKENEMMDAGTKKAKAKAR 470

DB 406 DDALGFLGSLFYKATFDROSKEIAGMISIRTAFEAL-GOLVWDEKTRQAAKEXAD 464
 QY 471 AYLAKEYEPEFINNDHVNEDLKATFESADYFNGVLTQRTKLAQSDFFWLLAKAPKIEW 530
 DB 465 AYDMGIFPPDLEPDEDVDGHEISDSFQNNLNYNSAKVMDQLKPPSRDQW 524
 QY 531 FNPITVNAFYASATNQIRFPAGELOKPPFNGTEYPRSLSYGALIGYVGEFTGPDNG 590
 DB 525 SMTPTVNAVYLPYKBEIYFPAIGIILQAPFY-ARNHPKALNFGIGIVGMGHELTIAFDQ 583
 QY 591 RKYDRNGINDPMTSTSEKPEKTKCMNQSYNTYKKAAGLVKQKTLGNIADNGEL 650
 DB 584 REYDKENIRPWNQNESLAFRNHTACMEQYNOY--OVNGERLNGRQTLGENTIDNGEL 641
 QY 651 REAFRAYRKINDROGLEEPLPGITFTNNQLFPLSYAHVNCNSYRPAAREQYOGAH 710
 DB 642 KAAVNAVKML--RKHG-BEQQLPAVGLNHLDFVGAQVQWCSVTPRESSBGLVTPRH 698
 QY 711 SPQFRVNGALINSSEFQAFNCPPNSTNRQMSCLRW 749
 DB 699 SPARFVLTGLTNSRDLFHLHFGCPVGSFNNPG-QLCEVW 736

RESULT 12
 US-09-999-832A-526
 Sequence 526, Application US/0999832A
 Publication No. US20020192706A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi
 APPLICANT: Baker Kevin P.
 APPLICANT: Botstein, David
 APPLICANT: Desnoyers, Luc
 APPLICANT: Eaton, Dan
 APPLICANT: Ferrara, Napoleon
 APPLICANT: Filvaroff, Ellen
 APPLICANT: Fong, Sherman
 APPLICANT: Gao, Wei-Qiang
 APPLICANT: Gerber, Hanspeter
 APPLICANT: Geritsen, Mary E.
 APPLICANT: Goddard, Audrey
 APPLICANT: Grimaldi, Paul J.
 APPLICANT: Gueney, Austin L.
 APPLICANT: Hillan, Kenneth J.
 APPLICANT: Kljavin, Ivar J.
 APPLICANT: Kuo, Sophia S.
 APPLICANT: Napier, Mary A.
 APPLICANT: Pan, James
 APPLICANT: Paoni, Nicholas F.
 APPLICANT: Roy, Margaret Ann
 APPLICANT: Shelton, David L.
 APPLICANT: Stewart, Timothy A.
 APPLICANT: Tumas, Daniel
 APPLICANT: Williams, P. Mickey
 APPLICANT: Wood, William I.
 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 FILE REFERENCE: P2630P1C63
 CURRENT APPLICATION NUMBER: US/09/999,832A
 PRIOR FILING DATE: 2001-10-24
 PRIOR APPLICATION NUMBER: 09/918585
 PRIOR FILING DATE: 2001-07-30
 PRIOR APPLICATION NUMBER: 60/062250
 PRIOR FILING DATE: 1997-10-17
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PRIOR APPLICATION NUMBER: 60/085697

Query Match      30.9%; Score 1223; DB 10; Length 736;
Best Local Similarity 35.2%; Fred. No. 1,66-105;
Matches 267; Conservative 145; Mismatches 307; Indels 40; Gaps 18;

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DB 7 ELGAGSNVGFQKGRQLLSGTOLLEIVLAGASLLALLGCLVALGVQHRDPSHTCL 66
QY 56 KPECEAAALISKNNLSVPCDNFFRACGMISNNPIPEMDSYGVYPMLRHNDLKL 115
DB 67 TEACIRVAGKILIESIDRGSVPCEDFYOPSCGGMTRRPLPDGRSRMTFNSLMDQNAL 126
QY 116 KELLEKISRDRDEAIQAKILYSSCENNEKAIEKADKPLHLHRSPPRWPLSENG 175
DB 127 KHLLENT--TENSSEAEQKTOFRLSCLOVERISELQAPLRDL-----EKIG 174
QY 176 P---EGWSEKRFSLQTLATFRCQYSNVFIRLYVSPDDKASNEHILKLDQATLSAVR 232
DB 175 GWNITGPMDQDNF--MEVLKAVAGTYRATPEFTYIISADSKSSNSVYIQVDSGLFLPSR 232
QY 233 EDYDNSTEAKSYNDALYKENVDTAVILGANSSHAEDMSVLELEKIMIPH--ENR 231
DB 233 DYIL--NRTANEKTLTAYIDYMEELGMLGGRPISTRBOQVLELEQLANITVPOQR 231
QY 292 TSEAMNKNMISELSAMIPOPWLGYTKYIDTLYPHLNDISPSENVVRVPOYFQDLF 351
DB 292 DEEKIYHMSISELQALAPSWDMLEFLSPLSF-----LELSDSEVVYVGMIDYIQVS 345
QY 352 RIIGSEKRTIANTLVWRMYSRIPNISRRPQYMWLEFSYIQT--TTLLPQDKCVNFI 410
DB 346 ELIRTEPSILNNLNLVQKTTSSIDRRFSAQELTLTYGKKSCVPRMOTCISNT 405
QY 411 ESALPYVVGKAFVVDYVFOEDKEMMEELVEGVMAFIIDMLEKENEMWDATKKAKEKAR 470
DB 406 DDALGFLGSLFVYKATFDROSKELAEGBMISEIRTAFFEL--GQVYMDKETRQAAEKAD 464
QY 471 AVLAKVGPYEFINMDTVNEDLKAIKFSEADYFQNVLTQTKYLAQSDFFMLRAVPTXW 530
DB 465 AIYMGIFPPFIEPKELDVIYDGEISEDSFFQNMMLNLYFSAKXWADQLRKPSPRDQ 524
QY 531 FTNFTYNAFASASTNOIRPAGELQKPFMGTEYPRSLSYGAIQVYVGHFTGPDNG 590
DB 525 SMPTQYTNAYLLPTKNEIVFPAGILQAPFY--ARHHPALMFGGIGVVMGHELTAAFDQ 583
QY 591 RKIDKNGNLDPMWSTESSEKFEKTKMINOYSNYWKAGLVNKGRTIGENIADNGEL 650
DB 584 REYDKENGLPFWWONBESLAAFRNHTACMEEQYNY--QVNGEELNGQITGENITNGGI 641
QY 651 REAFRAYKXVINDROGLEPBLPGITFTNNOLFFLSYAVHVRGNSYRPEARQVQIGAH 710
DB 642 KAAANAKAML--RKHG--EEQQLPAVGLTNHOLFVGFPAVQWCSVTPRESSHEGLVTDH 698
QY 711 SPOQFRVNGAISNEEFQKAFNCPNPSTNARGMDSCLW 749
DB 699 SPAFRVLTGTLNSNRDPLRHFGCPVGSFPMNPQ--QLCEVM 736

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RESULT 13

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US-09-978-189-526
Sequence 526, Application US/09978189
Publication No. US20030004102A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnyere, Luc

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APPLICANT: Eaton, Dan
APPLICANT: Ferreira, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
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APPLICANT: Gertlisen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
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APPLICANT: Gurney, Austin L.
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APPLICANT: Kijavini, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tunes, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630P1C7
CURRENT APPLICATION NUMBER: US/09/978,189
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
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PRIOR APPLICATION NUMBER: 60/080165
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PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/083392
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083495
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083496
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083499
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083545
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083554
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083558
PRIOR FILING DATE: 1998-04-29

PRIOR APPLICATION NUMBER: 60/083559
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083500
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083742
PRIOR FILING DATE: 1998-04-30
PRIOR APPLICATION NUMBER: 60/084366
PRIOR FILING DATE: 1998-05-05
PRIOR APPLICATION NUMBER: 60/084414
PRIOR FILING DATE: 1998-05-06
PRIOR APPLICATION NUMBER: 60/084441
PRIOR FILING DATE: 1998-05-06
PRIOR APPLICATION NUMBER: 60/084637
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084639
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084640
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084598
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084627
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084643
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/085339
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085338
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085323
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085582
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085700
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085689
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085579
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085580
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085573
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085704
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085697

Query Match 30.9%; Score 1223; DB 11; Length 736;
Best Local Similarity 35.2%; Pred. No. 1.6e-105; Indels 40; Gaps 18;
Matches 267; Conservative 145; Mismatches 307;

2 EARTGSSV--ETGKANKRGTIRAL-VFVGGTIVLGTIIF--LVSQGL-LSLQAKQCYCL 55
7 ELGAGSNVGFQKGRQLGSRQLGELVLAGASILLAAALLGCLVALGVGHRDPSHSTCL 66
56 KPECTEAAAILISKNLSDVPCNFRFACDGGISNNPIBEDMRSGVYPMLEHNDLKL 115
67 TEACTIRVAGKILSLRGLGVSFPCEDFFQSGGMRIRNPJPDGSSRNWNTNSLDQQAII 126
116 KELLEKISRRRDTEALIQKAKILYSSCMEKEALEKADAPLILHLSHSPFRPVLSENTG 175
127 KHLLENT-TNSSSEABQKQGRFYLSCLQVERIEELGAGPLRLDI-----EKIG 174
176 P---EGWSEKKSLLQTLATFFGQYSNVFIRLYYSPDDKASNEHILKDDQATLSLAIR 232
175 GWNITGPMQDNF--NEVLKAVAGTIRATPEFFTVIYSADSKSSNSNVIVDQSGFLPSP 232
233 EDYLDNSTEAKSRDALYKFMVDTAVILGANSRAHDMKSVLRLEIKIALEIPIH-ENR 291
233 DYIL-KRTANEKTLTAYLDMEELGMLGGRPTSTREQMQOYVELEIQLANITVPDDQR 291
292 TSEAMYNKNNISLSAMIDPQDWLGYIKYIDTRLIYPLKDISPSSENVVVVRVQYFKDLF 351


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; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-978-608A-526
Query Match      30.9%; Score 1223; DB 11; Length 736;
Best Local Similarity 35.2%; Pred. No. 1,6e-105;
Matches 267; Conservative 145; Mismatches 307; Indels 40; Gaps 18;

Db      232 DEEKTHNMKISLQALAPSMWMLFSLSP-----LELSDSEPVVYVGYMDYIQVYS 345
QY      352 RILGSEKRTIANYLVWRYSRIPNLRRPQYKMLEFHVIOGT-TTLTPQMDKCNFI 410
Db      346 ELINRTEPSILNLTLMWLVOKTTSSIDRRPESAOEHLTLVGTKSCVPRMGTICISNT 405
QY      411 ESALPYVVGKMFVDVYPOEDKCKEMMELVEGVRAFDIMLEKENEMWADGTRKAKAEKR 470
Db      406 DDAIGFALGSLFVKATPDRQSKELAEKMLSEIRTAEEAL-GQLVWMDKTRQAALKEKD 464
QY      471 AVLAAGVPEFIMNDTHVNEDLKAIKFEADYFGNVLTQRYLAQSDPFMLRAKAVKTEW 530
Db      465 AIYDMIGPFDLIEPKELDVIDYDGEISEDSFQNMNLNYSKAWADQLRKPBRDQW 524
QY      531 FTNPTTNAFYSASTNQIRFPAGELQKPFPGTGYPSLSYGAIGVYVGHFTHGDDNG 590
Db      525 SMTPTVAAYVLTPTKNEIVFPAGILQAPFY-ARNHPALNFGGIGVWGHETLTHAFDDQ 583
QY      591 RKYDKNGMLDPMWSTSESEKFEKTKCMINQYSNYWKKAAGLVKGRKTLGENIADNGL 650
Db      584 REYDEKGLRPMWQWESLAAFRNHTACMEBQYNY--QVNGERLNGRQTLGENITDNGL 641
QY      651 REAFRAYKMINDRQGLEPILPGITFTNNQLFELSYAHVRCNSYRPARAEQVQIGAH 710
Db      642 KAAVNAKAML--RKHG-BEQQLPAVGLTNHQLFVGFAGVWCSTPSSHEGLVTDPH 698
QY      711 SPQFRVNGAISNSEEFQKAFNCPNSTNRKMGDSCLM 749
Db      699 SPARFRVLGTLNSRDLRHFQCPVGSFPMNG-QLCEW 736

RESULT 14
US-09-978-608A-526
; Sequence 526, Application US/09978608A
; Publication No. US20030045462A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Birstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Baton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerlsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2630PLC22
; CURRENT APPLICATION NUMBER: US/09978, 608A
; NUMBER OF SEQ ID NOS: 624
; Prior Application removed - See File Wrapper or Palm
; SEQ ID NO 526
; LENGTH: 736

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; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-978-608A-526
Query Match      30.9%; Score 1223; DB 11; Length 736;
Best Local Similarity 35.2%; Pred. No. 1,6e-105;
Matches 267; Conservative 145; Mismatches 307; Indels 40; Gaps 18;

Db      176 P---EGVMSRKFSIQTATFRQYSNSVFIRLYVSPDKASNEHILQDATISLAVR 232
QY      175 GWNITGPMQDNF--HEVLKAVAGTIRAPFTFYISADSKSNSNVYIQVDSGLFLSR 232
Db      233 EDYLDNSTEAKSTRDALYKFMVDYAVLGNSSRAEHDKSVLRLEIKALIMITH-ENR 291
QY      233 DYVL-NRTANEKYLAVLYDMEELGMLGRPTSTEQMQVLELEIQLANTVPODQR 291
Db      292 TSEAMYNKONISELSAMIPQFDMGYIKYIDTRLYPHLKDISPSSENVVVRPQYFKDLF 351
QY      292 DEEKTHNMKISLQALAPSMWMLFSLSP-----LELSDSEPVVYVGYMDYIQVYS 345
Db      352 RILGSEKRTIANYLVWRYSRIPNLRRPQYKMLEFHVIOGT-TTLTPQMDKCNFI 410
QY      346 ELINRTEPSILNLTLMWLVOKTTSSIDRRPESAOEHLTLVGTKSCVPRMGTICISNT 405
Db      411 ESALPYVVGKMFVDVYPOEDKCKEMMELVEGVRAFDIMLEKENEMWADGTRKAKAEKR 470
QY      406 DDAIGFALGSLFVKATPDRQSKELAEKMLSEIRTAEEAL-GQLVWMDKTRQAALKEKD 464
Db      471 AVLAAGVPEFIMNDTHVNEDLKAIKFEADYFGNVLTQRYLAQSDPFMLRAKAVKTEW 530
QY      465 AIYDMIGPFDLIEPKELDVIDYDGEISEDSFQNMNLNYSKAWADQLRKPBRDQW 524
Db      531 FTNPTTNAFYSASTNQIRFPAGELQKPFPGTGYPSLSYGAIGVYVGHFTHGDDNG 590
QY      525 SMTPTVAAYVLTPTKNEIVFPAGILQAPFY-ARNHPALNFGGIGVWGHETLTHAFDDQ 583
Db      591 RKYDKNGMLDPMWSTSESEKFEKTKCMINQYSNYWKKAAGLVKGRKTLGENIADNGL 650
QY      584 REYDEKGLRPMWQWESLAAFRNHTACMEBQYNY--QVNGERLNGRQTLGENITDNGL 641
Db      651 REAFRAYKMINDRQGLEPILPGITFTNNQLFELSYAHVRCNSYRPARAEQVQIGAH 710
QY      642 KAAVNAKAML--RKHG-BEQQLPAVGLTNHQLFVGFAGVWCSTPSSHEGLVTDPH 698
Db      711 SPQFRVNGAISNSEEFQKAFNCPNSTNRKMGDSCLM 749
QY      699 SPARFRVLGTLNSRDLRHFQCPVGSFPMNG-QLCEW 736

RESULT 15
US-09-978-585A-526
; Sequence 526, Application US/09978585A
; Publication No. US20030049633A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Birstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Baton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen

```

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APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kijavini, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2630P1C15
CURRENT APPLICATION NUMBER: US/09/978,585A
CURRENT FILING DATE: 2001-10-16
NUMBER OF SEQ ID NOS: 624
Prior Application removed - See File Wrapper or Palm
SEQ ID NO 526
LENGTH: 736
TYPE: PRT
ORGANISM: Homo sapiens
US-09-978-585A-526

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Query Match      30.9%; Score 1223; DB 11; Length 736;
Best Local Similarity 35.2%; Pred. No. 1.6e-105;
Matches 267; Conservative 145; Mismatches 307; Indels 40; Gaps 18;

QY 2 EAFTGSSV--ETGKKANGRIAL--VFVGGTIVLGTILF--LVSGQL--LSLQAKOEYCL 55
DB 7 ELGAGSNVGFQKTRQLGSRTOLELVLAGASILLALLGCLVALGVQYHRDPSHSTCI 66
QY 56 KPECIEAAAIISRVNLSVPCDNFFRFACDGMISNNIPEDMPSYGVYPMLEHNDKLT 115
DB 67 TEACIRVAGKILBSLDGVPCEDEYVSCGWRTRNPLPDGSRMNTFNSLWDONQATL 126
QY 116 KELIEKSISSRRDTEALQAKILYSSCMNEKALEKADAKPLHLIRSPFRMPVLESNIG 175
DB 127 KHLIENT--TENSSEBAOKTQRFYLSCTQYERIEBLGAPLRDLI-----EKIG 174
QY 176 P---EGVWSERKPSLLQTLATFRGQYNSVFIRLYVSPDXASNEHILKIDQNTSLAVR 232
DB 175 GWNITGPMDDNF--NEVLAVAGTYRATPFYVYISADSKSSNSNVICVDSGLFLPSR 232
QY 233 EDYLDNSTEAKSYDALYKEMVDYAVLLIGANSRAEHDKSVRLKIKIAETIMIP--ENR 291
DB 233 DYLL--NRTANEKYLTAIDYMEELGMLGGRPTSTRBQOVLELEIQLANITVPQDQR 291
QY 292 TSEAMTKKMISELAMIPQFDWLGVIKKYIDTRLYPHLKDISPSENVAVVPQYKDLF 351
DB 292 DEEKTIYKMSISELQALAPSMDELFSLSP-----LELSDSEPVVYVYGMVLYQVS 345
QY 352 RIIGSERKKTIAVLYVWRWYYSRIPNLSRFQYRMLFEFSVIGQT--TLLPOMDKCVNFI 410
DB 346 ELINRTEPSILNNYILWNLVQKTTSSIDRFESAQEKLETLVGTIKSCVPRKQTCISNT 405
QY 411 ESALPYVVGMPVDVYFQEBKEMEBLYEGVMAFIDMLEKENEMWDAQYRKAKEXAR 470
DB 406 DDALGFLGSLFVKAFTRDSKSEIAEGMISEIRTAFEAL--GQIVMDEKTRQAAKEXAD 464
QY 471 AVLAKYGFPEFINDTYVNEDLKAIKFSADYRGVYLQTRKYLAOSDFWLRKAVPKTEW 530
DB 465 AIVDMIGFDPFLEPKELDVYGVYISDSFQNTLNLNPSAKYMAQDLKRPSPRDW 524

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QY 531 FTNPTVNAFYASATNQIRPAGELQKPEFMGTBYRSLSYGALIGYVGHETFGPDNG 590
DB 525 SMTPQTVNAIYLPFKNEIVFPAGILQAPY--ARNHPKALNFGIGVWGHETLHAFDDG 583
QY 591 RKYDXNGNIDPMWSTSEBEKFEKTKCMINQYSNYYKKAGLVXGKRTLGENTADNGSL 650
DB 584 REYDKKGNIRPWWQNSLAFRNHTACMEBOYNY--GVNGERLNGRQTLGENTIDNGSL 641
QY 651 REAFRAYRKINDRQGLEPILLPGITFTNNQLFPLSYAHVRCNSYRPAAREVOIGAH 710
DB 642 KAIYNAIYKWL--RKAG--BEQQLPAVGLTNHQLFVVGFAQVWCSTRTPESSHEGLVTPDH 698
QY 711 SPQFRVNGAISNSEFOKAFNCPNSTWNRGMDSCRLM 749
DB 699 SPARFRVLTLSNRDPLHFQCPVGSPPNPG--QLCEVW 736

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Search completed: February 20, 2004, 14:34:10
Job time: 62.7451 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: February 20, 2004, 13:32:18 ; Search time 0.627451 Seconds
(without alignments)
1078.927 Million cell updates/sec

Title: US-09-913-955A-4

Perfect score: 72

Sequence: 1 VLTVIAQQTSGILS 16

Scoring table: BLOSUM62
Gapop 10.0, Gapext 0.5

Searched: 328717 seqs, 4231088 residues

328717

ALIGNMENTS

Query	Match	Length	DB	ID	Description
28	32	44.4	206	4	US-09-996-243-403
29	32	44.4	206	6	5164490-1
30	32	44.4	245	4	US-09-252-991A-28029
31	32	44.4	255	2	US-08-685-992A-16
32	32	44.4	255	2	US-09-144-925-16
33	32	44.4	271	4	US-09-328-352-5629
34	32	44.4	288	4	US-09-252-991A-17419
35	32	44.4	292	4	US-08-134-001C-3301
36	32	44.4	307	3	US-08-812-586-2
37	32	44.4	316	4	US-09-535-832A-2
38	32	44.4	316	4	US-09-328-352-6805
39	32	44.4	317	4	US-08-976-063E-6
40	32	44.4	408	4	US-09-107-532A-6253
41	32	44.4	418	4	US-09-252-991A-20913
42	32	44.4	420	2	US-08-466-103A-2
43	32	44.4	438	4	US-09-252-991A-28398
44	32	44.4	455	4	US-09-328-352-5839
45	32	44.4	460	4	US-09-252-991A-28610

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:*

1: /cgn2_6/ptodata/1/1aa/5A.COMB.pep:*

2: /cgn2_6/ptodata/1/1aa/5B.COMB.pep:*

3: /cgn2_6/ptodata/1/1aa/6A.COMB.pep:*

4: /cgn2_6/ptodata/1/1aa/6B.COMB.pep:*

5: /cgn2_6/ptodata/1/1aa/PTUS.COMB.pep:*

6: /cgn2_6/ptodata/1/1aa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,

and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	41	56.9	283	4	US-09-198-452A-424	Sequence 424, App
2	37	51.4	206	4	US-09-107-532A-3801	Sequence 3801, App
3	37	51.4	3433	4	US-09-091-501B-10	Sequence 10, Appl
4	36	50.0	361	4	US-09-252-991A-30426	Sequence 30426, A
5	36	50.0	454	4	US-09-252-991A-30164	Sequence 30164, A
6	35	48.6	132	4	US-09-198-452A-573	Sequence 573, App
7	35	48.6	625	4	US-09-252-991A-26336	Sequence 26336, A
8	35	48.6	705	4	US-09-328-352-4457	Sequence 4457, App
9	35	48.6	803	4	US-09-252-991A-19492	Sequence 19492, A
10	34.5	47.9	418	4	US-09-724-623-106	Sequence 106, App
11	34	47.2	1034	4	US-09-252-991A-28921	Sequence 28921, A
12	34	47.2	1627	4	US-09-328-352-6604	Sequence 6604, App
13	33	45.8	438	4	US-09-252-991A-18710	Sequence 18710, A
14	33	45.8	453	4	US-09-252-991A-17641	Sequence 17641, A
15	33	45.8	459	2	US-08-870-518-4	Sequence 4, Appl
16	33	45.8	476	2	US-08-624-635-5	Sequence 5, Appl
17	33	45.8	749	4	US-09-252-991A-16877	Sequence 16877, A
18	33	45.8	2004	1	US-08-375-709-15	Sequence 15, Appl
19	33	45.8	2004	1	US-08-752-929-15	Sequence 9, Appl
20	33	45.8	2004	3	US-09-090-793-9	Sequence 9, Appl
21	33	45.8	2004	3	US-09-231-899-9	Sequence 23, Appl
22	32.5	45.1	894	3	US-08-362-525-22	Sequence 15, Appl
23	32.5	45.1	894	3	US-08-971-682-15	Sequence 2, Appl
24	32.5	45.1	1537	1	US-08-325-267A-2	Sequence 2, Appl
25	32	44.4	132	6	5164490-7	Patent No. 5164490
26	32	44.4	195	4	US-09-252-991A-21069	Sequence 21069, A
27	32	44.4	197	4	US-09-602-877A-99	Sequence 99, Appl

RESULT 1
US-09-198-452A-424
Sequence 424, Application US/09198452A
Patent No. 6559294
GENERAL INFORMATION:
APPLICANT: Grifflis, R.
TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments thereof and uses thereof, in particular for the diagnosis, prevention
FILE REFERENCE: 9710-003-999
CURRENT APPLICATION NUMBER: US/09/198,452A
CURRENT FILING DATE: 1998-11-24
NUMBER OF SEQ ID NOS: 6849
SEQ ID NO 424
LENGTH: 283
TYPE: PRT
ORGANISM: Chlamydia pneumoniae
US-09-198-452A-424

Query Match 56.9%; Score 41; DB 4; Length 283;
Best Local Similarity 53.8%; Pred. No. 6.7;
Matches 7; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 1 VLTVIAQQTSG 13
DB 162 LSTVQMTSG 174

RESULT 2
US-09-107-532A-3801
Sequence 3801, Application US/09107532A
Patent No. 6583275
GENERAL INFORMATION:
APPLICANT: Lynn A Doucette-Stamm and David Bush
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ENTEROCOCCUS FACIUM FOR DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 7310
CORRESPONDENCE ADDRESS:
ADDRESSEE: GENOME THERAPEUTICS CORPORATION
STREET: 100 Beaver Street
CITY: Waltham
STATE: Massachusetts
COUNTRY: USA
ZIP: 02354
COMPUTER READABLE FORM:
MEDIUM TYPE: CD-ROM ISO9660
COMPUTER: PC
OPERATING SYSTEM: <Unknown>
SOFTWARE: ASCII
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/107,532A
FILING DATE: 30-Jun-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/085,598
FILING DATE: 14 May 1998
APPLICATION NUMBER: 60/051571
FILING DATE: July 2, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Arinello, Pamela Denek
REGISTRATION NUMBER: 40,489
REFERENCE/DOCKET NUMBER: GTC-012
TELECOMMUNICATION INFORMATION:
TELEPHONE: (781)893-5007
TELEFAX: (781)893-8277
INFORMATION FOR SEQ ID NO: 3801:
SEQUENCE CHARACTERISTICS:
LENGTH: 206 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: YES
ORIGINAL SOURCE:
ORGANISM: Enterococcus faecium
FEATURE:
NAME/KEY: misc feature
LOCATION: (B) LOCATION 1...206
SEQUENCE DESCRIPTION: SEQ ID NO: 3801:
US-09-107-532A-3801

Query Match 51.4%; Score 37; DB 4; Length 206;
Best Local Similarity 61.5%; Pred. No. 25;
Matches 8; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 2 LVIVIAOQTSGQL 14
: ||| : |||
DB 122 VIVIDSDTIDQL 134

RESULT 3
US-09-091-501B-10
Sequence 10; Application US/09091501B
Patent No. 6518413
GENERAL INFORMATION:
APPLICANT: Tinsley, Jonathan M
APPLICANT: Davies, Kay E
TITLE OF INVENTION: Utrrophin gene expression
FILE REFERENCE: 620-42
CURRENT APPLICATION NUMBER: US/09/091,501B
CURRENT FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: PCT/GB96/03156
PRIOR FILING DATE: 1996-12-19
PRIOR APPLICATION NUMBER: GB 9525962.8
PRIOR FILING DATE: 1995-12-19
PRIOR APPLICATION NUMBER: GB 9615797.9
PRIOR FILING DATE: 1996-07-26
PRIOR APPLICATION NUMBER: GB 9622174.2
PRIOR FILING DATE: 1996-10-24
NUMBER OF SEQ ID NOS: 15
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 10
LENGTH: 3433
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
NAME/KEY: misc feature
LOCATION: (239) ... (250)
OTHER INFORMATION: Description of Artificial Sequence: Full length
OTHER INFORMATION: utrophin construct; Xaa = unknown
US-09-091-501B-10

Query Match 51.4%; Score 37; DB 4; Length 3433;
Best Local Similarity 53.8%; Pred. No. 7.8e+02;
Matches 7; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 3 TVIAOQTSGQL 15
: ||| : |||
DB 1565 TELVQKSTISBGL 1577

RESULT 4
US-09-252-991A-30426
Sequence 30426; Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 30426
LENGTH: 361
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-30426

Query Match 50.0%; Score 36; DB 4; Length 361;
Best Local Similarity 53.3%; Pred. No. 77;
Matches 8; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 VLTVIAOQTSGQL 15
: ||| : |||
DB 125 VLPVIAKQTLGGGLV 139

RESULT 5
US-09-252-991A-30164
Sequence 30164; Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 30164
LENGTH: 454
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-30164

Query Match 50.0%; Score 36; DB 4; Length 454;
Best Local Similarity 58.3%; Pred. No. 1e+02;
Matches 7; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 5 IAQQTSGQLS 16
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DB 320 VAHQAAAGLLS 331

RESULT 6
US-09-198-452A-573
Sequence 573; Application US/09198452A
Patent No. 6559294
GENERAL INFORMATION:

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; APPLICANT: Griffee, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
; TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, prevention
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/09/198,452A
; CURRENT FILING DATE: 1998-11-24
; NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 573
; LENGTH: 132
; TYPE: PRT
; ORGANISM: Chlamydia pneumoniae
; US-09-198-452A-573

Query Match
Best Local Similarity 48.6%; Score 35; DB 4; Length 132;
Matches 8; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

Cy 2 LTVTAQQTSGGLS 16
Db 116 MTKAQEQEKGLS 130

RESULT 7
US-09-252-991A-26336
; Sequence 26336, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196,136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 26336
; LENGTH: 625
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
; US-09-252-991A-26336

Query Match
Best Local Similarity 48.6%; Score 35; DB 4; Length 625;
Matches 8; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

Cy 1 VLTVAQQTSGGLS 16
Db 365 MLTVAQQTDAQFVYN 380

RESULT 8
US-09-328-352-4457
; Sequence 4457, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
; FILE REFERENCE: GTC99-03PA
; CURRENT APPLICATION NUMBER: US/09/328,352
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 4457
; LENGTH: 705
; TYPE: PRT
; ORGANISM: Acinetobacter baumannii
; US-09-328-352-4457

Query Match 48.6%; Score 35; DB 4; Length 705;
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```

Best Local Similarity 43.8%; Pred. No. 2.7e+02;
Matches 7; Conservative 4; Mismatches 5; Indels 0; Gaps 0;

Cy 1 VLTVAQQTSGGLS 16
Db 435 MLTVAQEVGSSTLS 450

RESULT 9
US-09-252-991A-19492
; Sequence 19492, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196,136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 19492
; LENGTH: 803
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
; US-09-252-991A-19492

Query Match
Best Local Similarity 46.2%; Score 35; DB 4; Length 803;
Matches 6; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Cy 3 TVTAQQTSGGL 15
Db 352 TVTAQGRSQGLV 364

RESULT 10
US-09-724-623-106
; Sequence 106, Application US/09724623
; Patent No. 6476209
; GENERAL INFORMATION:
; APPLICANT: Glenn, Matthew
; APPLICANT: Dekker, James
; TITLE OF INVENTION: Polynucleotides, materials incorporating
; FILE REFERENCE: 1048U1
; CURRENT APPLICATION NUMBER: US/09/724,623
; CURRENT FILING DATE: 2000-11-28
; NUMBER OF SEQ ID NOS: 124
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 106
; LENGTH: 418
; TYPE: PRT
; ORGANISM: Lactobacillus rhamnosus
; US-09-724-623-106

Query Match
Best Local Similarity 47.9%; Score 34.5; DB 4; Length 418;
Matches 9; Conservative 4; Mismatches 1; Indels 3; Gaps 1;

Cy 3 TVTAQQTSGGLS 16
Db 20 TVLSQLTAKNAGLLA 36

RESULT 11
US-09-252-991A-28921
; Sequence 28921, Application US/09252991A
; Patent No. 6551795
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; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; PRIOR FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 28921
; LENGTH: 1034
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
; US-09-252-991A-28921

Query Match          47.2%; Score 34; DB 4; Length 1034;
Best Local Similarity 54.5%; Pred. No. 6.5e+02;
Matches 6; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 5 LVTVIAQQTSGQLS 15
DB 816 LADQSTDOGLI 826

RESULT 12
US-09-328-352-6604
; Sequence 6604, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
; TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: GTC99-03PA
; CURRENT APPLICATION NUMBER: US/09/328,352
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 6604
; LENGTH: 1627
; TYPE: PRT
; ORGANISM: Acinetobacter baumannii
; US-09-328-352-6604

Query Match          47.2%; Score 34; DB 4; Length 1627;
Best Local Similarity 50.0%; Pred. No. 1.1e+03;
Matches 8; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

QY 1 LVTVIAQQTSGQLS 16
DB 537 LLAHLALQLTPOGLVS 552

RESULT 13
US-09-252-991A-18710
; Sequence 18710, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; PRIOR FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 18710
; LENGTH: 438
; TYPE: PRT
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; ORGANISM: Pseudomonas aeruginosa
; US-09-252-991A-18710

Query Match          45.8%; Score 33; DB 4; Length 438;
Best Local Similarity 46.7%; Pred. No. 3.5e+02;
Matches 7; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

QY 2 LVTVIAQQTSGQLS 16
DB 112 VTAVAAPTOMQGLIS 126

RESULT 14
US-09-252-991A-17641
; Sequence 17641, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; PRIOR FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 17641
; LENGTH: 453
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
; US-09-252-991A-17641

Query Match          45.8%; Score 33; DB 4; Length 453;
Best Local Similarity 46.2%; Pred. No. 3.7e+02;
Matches 6; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 LVTVIAQQTSG 13
DB 117 VAVVAEQVAAG 129

RESULT 15
US-08-870-518-4
; Sequence 4, Application US/08870518
; Patent No. 5925565
; GENERAL INFORMATION:
; APPLICANT: Davis, Roger J.
; APPLICANT: Galcheva-Gargova, Zoya
; TITLE OF INVENTION: NON-ACTIVATED RECEPTOR COMPLEX
; TITLE OF INVENTION: PROTEINS AND USES THEREOF
; NUMBER OF SEQUENCES: 35
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: US
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/870,518
; FILING DATE: 06-JUN-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/019,219
; FILING DATE: 06-JUN-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Fasee, Peter J.
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REGISTRATION NUMBER: 32,983
 REFERENCE/DOCKET NUMBER: 04020/102001
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 617/542-5070
 TELEFAX: 617/542-8906
 TELEX: 200154
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 459 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-870-518-4

Query Match 45.8%; Score 33; DB 2; Length 459;
 Best Local Similarity 58.3%; Pred. No. 3.7e+02;
 Matches 7; Conservative 2; Mismatches 3; Indels 0; Gaps 0;
 QY 5 INQQTTSQGLS 16
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 Db 125 LGQLTTVEGLS 136

Search completed: February 20, 2004, 14:26:14
 Job time : 0.627451 secs

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OM protein - protein search, using SW model

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Title: US-09-913-955A-4

Perfect score: 72
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Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	41	56.9	283	12 US-10-289-762-424	Sequence 424, App
2	38	52.8	277	12 US-10-374-780A-1528	Sequence 1528, App
3	38	52.8	1163	12 US-10-452-024-107	Sequence 107, App
4	38	52.8	1193	12 US-10-452-024-92	Sequence 92, Appl
5	38	52.8	1193	12 US-10-452-024-93	Sequence 93, Appl
6	37	51.4	551	12 US-10-369-493-3535	Sequence 3535, App
7	36	50.0	453	12 US-10-369-493-5606	Sequence 5606, App
8	36	50.0	602	12 US-10-156-761-11650	Sequence 11650, A
9	36	50.0	602	12 US-10-369-493-3150	Sequence 3150, App
10	36	50.0	785	12 US-10-369-493-1370	Sequence 1370, App
11	35	48.6	77	12 US-10-029-386-27413	Sequence 27413, A
12	35	48.6	118	12 US-10-369-493-21960	Sequence 21960, A
13	35	48.6	132	12 US-10-289-762-573	Sequence 573, App
14	35	48.6	236	12 US-09-881-752A-340	Sequence 340, App
15	35	48.6	254	9 US-09-815-242-4880	Sequence 4880, App

16	35	48.6	258	9 US-09-815-242-10486	Sequence 10486, A
17	35	48.6	299	12 US-10-275-933-5	Sequence 5, Appl
18	35	48.6	269	12 US-10-275-933-6	Sequence 6, Appl
19	35	48.6	626	14 US-10-047-539-2	Sequence 2, Appl
20	35	48.6	1159	12 US-10-452-024-108	Sequence 108, App
21	35	48.6	1193	12 US-10-452-024-103	Sequence 103, App
22	35	48.6	1193	12 US-10-452-024-104	Sequence 104, App
23	34.5	47.9	418	12 US-10-288-930-106	Sequence 106, App
24	34	47.2	121	15 US-10-310-002-3	Sequence 3, Appl
25	34	47.2	334	10 US-09-738-626-5842	Sequence 5842, App
26	34	47.2	390	12 US-09-764-875-675	Sequence 675, App
27	34	47.2	508	12 US-10-259-194A-174	Sequence 174, App
28	34	47.2	508	12 US-10-156-761-12564	Sequence 12564, A
29	34	47.2	531	12 US-10-369-493-10137	Sequence 10137, A
30	34	47.2	549	12 US-10-369-493-10137	Sequence 5478, App
31	34	47.2	686	12 US-10-310-154-434	Sequence 434, App
32	34	47.2	1008	15 US-10-310-002-11	Sequence 11, Appl
33	34	47.2	1054	15 US-10-310-002-47	Sequence 47, Appl
34	34	47.2	1114	12 US-10-320-797-3340	Sequence 3340, App
35	34	47.2	1161	12 US-10-452-024-105	Sequence 105, App
36	34	47.2	1161	12 US-10-452-024-106	Sequence 106, App
37	34	47.2	1193	12 US-10-452-024-94	Sequence 94, Appl
38	33.5	46.5	793	15 US-10-156-761-10563	Sequence 10563, A
39	33	45.8	81	10 US-09-925-300-1641	Sequence 1641, App
40	33	45.8	102	15 US-10-156-761-12525	Sequence 12525, A
41	33	45.8	254	12 US-10-369-493-16310	Sequence 16310, A
42	33	45.8	259	12 US-10-369-493-15574	Sequence 15574, A
43	33	45.8	259	12 US-10-369-493-15597	Sequence 15597, A
44	33	45.8	265	12 US-10-289-757-98	Sequence 98, Appl
45	33	45.8	307	12 US-10-369-493-19992	Sequence 19992, A

ALIGNMENTS

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RESULT 1
US-10-289-762-424
; Sequence 424, Application US/10289762
; Publication No. US20040006218A1
; GENERAL INFORMATION:
; APPLICANT: Griffiths, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
; TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, prevention
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/10/289,762
; CURRENT FILING DATE: 2003-03-27
; NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 424
; LENGTH: 283
; TYPE: PRT
; ORGANISM: Chlamydia pneumoniae
US-10-289-762-424
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Query Match 56.9%; Score 41; DB 12; Length 283;
Best Local Similarity 53.8%; Pred. No. 26;
Matches 7; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

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QY 1 VLTVIAQQTTSQGL 13
Db 162 LLSVIAQQTTSQGL 174

RESULT 2
US-10-374-780A-1528
; Sequence 1528, Application US/10374780A
; Publication No. US20040019927A1
; GENERAL INFORMATION:
; APPLICANT: Sherman, Bradley K
; APPLICANT: Riechmann, Jose Luis
; APPLICANT: Ciang, Cai-Zhong
; APPLICANT: Heard, Jacqueline E
; APPLICANT: Haake, Volker
```


APPLICANT: Creelman, Robert A
APPLICANT: Ratcliffe, Oliver
APPLICANT: Adam, Luc J
APPLICANT: Reuber, T. Lynne
APPLICANT: Keddie, James E
APPLICANT: Brown, Pierre E
APPLICANT: Pilgrim, Marsha L
APPLICANT: Dubeil III, Arnold T
APPLICANT: Pineda, Omaira
APPLICANT: Yu, Guo-Liang
TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES IN PLANTS
FILE REFERENCE: MB1-0047 CIP
CURRENT APPLICATION NUMBER: US/10/374,780A
CURRENT FILING DATE: 2003-02-25
PRIOR APPLICATION NUMBER: 09/837,944
PRIOR FILING DATE: 2001-04-18
PRIOR APPLICATION NUMBER: 60/310,847
PRIOR FILING DATE: 2001-08-09
PRIOR APPLICATION NUMBER: 09/934,455
PRIOR FILING DATE: 2001-08-22
PRIOR APPLICATION NUMBER: 60/336,049
PRIOR FILING DATE: 2001-11-19
PRIOR APPLICATION NUMBER: 60/338,692
PRIOR FILING DATE: 2001-12-11
PRIOR APPLICATION NUMBER: 10/171,468
PRIOR FILING DATE: 2002-06-14
PRIOR APPLICATION NUMBER: 10/225,066
PRIOR FILING DATE: 2002-08-09
PRIOR APPLICATION NUMBER: 10/225,067
PRIOR FILING DATE: 2002-08-09
PRIOR APPLICATION NUMBER: 10/225,068
PRIOR FILING DATE: 2002-08-09
NUMBER OF SEQ ID NOS: 2906
SOFTWARE: Patentin version 3.2
SEQ ID NO 1528
LENGTH: 277
TYPE: PRT
ORGANISM: nicotiana tabacum
FEATURE:
OTHER INFORMATION: Orthologous to G1266
US-10-374-780A-1528

Query Match 52.8%; Score 38; DB 12; Length 277;
Best Local Similarity 56.2%; Pred. No. 87;
Matches 9; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

Qy 1 LTVIAOQTSGQLS 16
Db 49 LTVIAOQTSGEVLS 64

RESULT 3
US-10-452-024-107
Sequence 107, Application US/10452024
Publication No. US20040013687A1
GENERAL INFORMATION:
APPLICANT: Simpson, Lance
APPLICANT: Park, Jung-Beak
APPLICANT: Maksymowich, Andrew
TITLE OF INVENTION: Compositions and Methods For Transepithelial Molecular Transport
FILE REFERENCE: 9855-96U1
CURRENT APPLICATION NUMBER: US/10/452,024
CURRENT FILING DATE: 2003-06-02
PRIOR APPLICATION NUMBER: 60/384,949
PRIOR FILING DATE: 2002-05-31
NUMBER OF SEQ ID NOS: 188
SOFTWARE: Patentin version 3.2
SEQ ID NO 107
LENGTH: 1163
TYPE: PRT
ORGANISM: Clostridium botulinum
US-10-452-024-107

Query Match 52.8%; Score 38; DB 12; Length 1163;
Best Local Similarity 53.3%; Pred. No. 4.6e+02;
Matches 8; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

Qy 2 LTVIAOQTSGQLS 16
Db 983 LTVIAOQTSGEVLS 997

RESULT 4
US-10-452-024-92
Sequence 92, Application US/10452024
Publication No. US20040013687A1
GENERAL INFORMATION:
APPLICANT: Simpson, Lance
APPLICANT: Park, Jung-Beak
APPLICANT: Maksymowich, Andrew
TITLE OF INVENTION: Compositions and Methods For Transepithelial Molecular Transport
FILE REFERENCE: 9855-96U1
CURRENT APPLICATION NUMBER: US/10/452,024
CURRENT FILING DATE: 2003-06-02
PRIOR APPLICATION NUMBER: 60/384,949
PRIOR FILING DATE: 2002-05-31
NUMBER OF SEQ ID NOS: 188
SOFTWARE: Patentin version 3.2
SEQ ID NO 92
LENGTH: 1193
TYPE: PRT
ORGANISM: Clostridium botulinum
US-10-452-024-92

Query Match 52.8%; Score 38; DB 12; Length 1193;
Best Local Similarity 53.3%; Pred. No. 4.8e+02;
Matches 8; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

Qy 2 LTVIAOQTSGQLS 16
Db 1017 LTVIAOQTSGEVLS 1031

RESULT 5
US-10-452-024-93
Sequence 93, Application US/10452024
Publication No. US20040013687A1
GENERAL INFORMATION:
APPLICANT: Simpson, Lance
APPLICANT: Park, Jung-Beak
APPLICANT: Maksymowich, Andrew
TITLE OF INVENTION: Compositions and Methods For Transepithelial Molecular Transport
FILE REFERENCE: 9855-96U1
CURRENT APPLICATION NUMBER: US/10/452,024
CURRENT FILING DATE: 2003-06-02
PRIOR APPLICATION NUMBER: 60/384,949
PRIOR FILING DATE: 2002-05-31
NUMBER OF SEQ ID NOS: 188
SOFTWARE: Patentin version 3.2
SEQ ID NO 93
LENGTH: 1193
TYPE: PRT
ORGANISM: Clostridium botulinum
US-10-452-024-93

Query Match 52.8%; Score 38; DB 12; Length 1193;
Best Local Similarity 53.3%; Pred. No. 4.8e+02;
Matches 8; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

Qy 2 LTVIAOQTSGQLS 16
Db 1017 LTVIAOQTSGEVLS 1031

RESULT 6
US-10-369-493-3535

```

; Sequence 3535, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; PRIOR FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 3535
; LENGTH: 551
; TYPE: PRT
; ORGANISM: Neurospora crassa
; FEATURES:
; NAME/KEY: unsure
; LOCATION: (1)..(551)
; OTHER INFORMATION: unsure at all Xaa locations
US-10-369-493-3535

```

```

Query Match          51.4%; Score 37; DB 12; Length 551;
Best Local Similarity 53.8%; Pred. No. 2.9e+02;
Matches 7; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

```

```

QY 1 VTVAQQTTSQG 13
DB 468 VLVDVAERTTSEG 480

```

```

RESULT 7
US-10-369-493-5606
; Sequence 5606, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; PRIOR FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 5606
; LENGTH: 394
; TYPE: PRT
; ORGANISM: Caenorhabditis elegans
US-10-369-493-5606

```

```

Query Match          50.0%; Score 36; DB 12; Length 394;
Best Local Similarity 54.5%; Pred. No. 3e+02;
Matches 6; Conservative 3; Mismatches 2; Indels 0; Gaps 0;
QY 3 TVIAQQTTSQG 13
DB 84 TVVAQQAISSEG 94

```

```

RESULT 8
US-10-156-761-11650
; Sequence 11650, Application US/10156761
; Publication No. US20030119018A1
; GENERAL INFORMATION:

```

```

; APPLICANT: OKURA, SATOSHI
; APPLICANT: IKEDA, HARUO
; APPLICANT: ISHIKAWA, JUN
; APPLICANT: HORIKAWA, HIROSHI
; APPLICANT: SHIBA, TADAYOSHI
; APPLICANT: SAKAKI, YOSHIYUKI
; APPLICANT: HATTORI, MASAHIRA
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-262
; CURRENT APPLICATION NUMBER: US/10/156,761
; PRIOR FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2001-204089
; PRIOR FILING DATE: 2001-05-30
; PRIOR APPLICATION NUMBER: JP 2001-272697
; PRIOR FILING DATE: 2001-08-02
; NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 11650
; LENGTH: 453
; TYPE: PRT
; ORGANISM: Streptomyces avermitilis
US-10-156-761-11650

```

```

Query Match          50.0%; Score 36; DB 15; Length 453;
Best Local Similarity 40.0%; Pred. No. 3.6e+02;
Matches 6; Conservative 5; Mismatches 4; Indels 0; Gaps 0;

```

```

QY 1 VTVAQQTTSQGL 15
DB 47 ITALVROQTGTGFL 61

```

```

RESULT 9
US-10-369-493-3150
; Sequence 3150, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; PRIOR FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 3150
; LENGTH: 602
; TYPE: PRT
; ORGANISM: Neurospora crassa
; FEATURES:
; NAME/KEY: unsure
; LOCATION: (1)..(602)
; OTHER INFORMATION: unsure at all Xaa locations
US-10-369-493-3150

```

```

Query Match          50.0%; Score 36; DB 12; Length 602;
Best Local Similarity 58.3%; Pred. No. 5e+02;
Matches 7; Conservative 2; Mismatches 3; Indels 0; Gaps 0;
QY 3 TVIAQQTTSQGL 14
DB 569 TVVLAQEAIVQGL 580

```

```

RESULT 10
US-10-369-493-1370
; Sequence 1370, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:

```

```

; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; PRIOR FILING DATE: 2003-02-28
; CURRENT FILING DATE: 2003-02-28
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO: 1370
; LENGTH: 785
; TYPE: PRT
; ORGANISM: Saccharomyces cerevisiae
US-10-369-493-1370
```

```

Query Match          50.0%; Score 36; DB 12; Length 785;
Best Local Similarity 46.7%; Pred. No. 6.8e+02;
Matches 7; Conservative 5; Mismatches 3; Indels 0; Gaps 0;
```

```
QY      2 LVTVAQQTSGQLS 16
DB      323 LHVIGETSKSGILN 337
```

```

RESULT 11
US-10-029-386-27413
; Sequence 27413, Application US/10029386
; Publication No. US20030194704A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR G
; TITLE OF INVENTION: EXPRESSION ANALYSIS TWO
; FILE REFERENCE: AEOMICA-X-2
; CURRENT APPLICATION NUMBER: US/10/029,386
; CURRENT FILING DATE: 2001-12-20
; NUMBER OF SEQ ID NOS: 34288
; SOFTWARE: Annotmax Sequence Listing Engine vers. 1.1
; SEQ ID NO: 27413
; LENGTH: 77
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO CHR22,105,0
; OTHER INFORMATION: EXPRESSED IN HELIX, SIGNAL = 1.1
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.9
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 2
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.8
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.9
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 2.1
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 2
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 2
; OTHER INFORMATION: SWISSPROT HIT: Q9VHB6, EVALU8 9.00e+00
US-10-029-386-27413
```

```

Query Match          48.6%; Score 35; DB 12; Length 77;
Best Local Similarity 40.0%; Pred. No. 69;
Matches 6; Conservative 5; Mismatches 4; Indels 0; Gaps 0;
```

```
QY      1 LVTVAQQTSGQLS 15
DB      59 LHLIVDQATKEGIL 73
```

```

RESULT 12
US-10-369-493-21960
; Sequence 21960, Application US/10369493
; Publication No. US2003033675A1
```

```

; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; PRIOR FILING DATE: 2003-02-28
; CURRENT FILING DATE: 2003-02-28
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO: 21960
; LENGTH: 118
; TYPE: PRT
; ORGANISM: Saccharomyces cerevisiae
US-10-369-493-21960
```

```

Query Match          48.6%; Score 35; DB 12; Length 118;
Best Local Similarity 46.7%; Pred. No. 1.1e+02;
Matches 7; Conservative 4; Mismatches 4; Indels 0; Gaps 0;
```

```
QY      1 LVTVAQQTSGQLS 15
DB      7 LIAVIADEDTTIGLL 21
```

```

RESULT 13
US-10-289-762-573
; Sequence 573, Application US/10289762
; Publication No. US20040006218A1
; GENERAL INFORMATION:
; APPLICANT: Griffls, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
; TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, preve
; TITLE OF INVENTION: and treatment of infection
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/10/289,762
; CURRENT FILING DATE: 2003-03-27
; NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO: 573
; LENGTH: 132
; TYPE: PRT
; ORGANISM: Chlamydia pneumoniae
US-10-289-762-573
```

```

Query Match          48.6%; Score 35; DB 12; Length 132;
Best Local Similarity 53.3%; Pred. No. 1.3e+02;
Matches 8; Conservative 3; Mismatches 4; Indels 0; Gaps 0;
```

```
QY      2 LVTVAQQTSGQLS 16
DB      116 MTVAAGQEPKGLS 130
```

```

RESULT 14
US-09-881-752A-340
; Sequence 340, Application US/09881752A
; Patent No. US20020115078A1
; GENERAL INFORMATION:
; APPLICANT: Kleenhouse, Harold
; APPLICANT: Al-Garawi, Amal
; APPLICANT: Miller, Charles
; APPLICANT: Tomb, Jean-Francois
; APPLICANT: Oomen, Raymond P.
; TITLE OF INVENTION: Identification of Polynucleotides
; TITLE OF INVENTION: Encoding No. US20020115078A1 Helicobacter Polypeptides in the
; FILE REFERENCE: 06132/041002
; CURRENT APPLICATION NUMBER: US/09/881,752A
; CURRENT FILING DATE: 2001-06-15
```

;; PRIOR APPLICATION NUMBER: US 08/833,457
 ;; PRIOR FILING DATE: 1997-04-01
 ;; NUMBER OF SEQ ID NOS: 370
 ;; SOFTWARE: FastSEQ for Windows Version 4.0
 ;; SEQ ID NO 340
 ;; LENGTH: 236
 ;; TYPE: PRT
 ;; ORGANISM: Helicobacter pylori
 US-09-881-752A-340

Query Match 48.6%; Score 35; DB 10; Length 236;
 Best Local Similarity 50.0%; Pred. No. 2.5e+02;
 Matches 8; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

CY 1 VLTVIAOQTTSQGLIS 16
 Db 173 ILTPVIAQNVAGLES 188

RESULT 15
 US-09-815-242-4880
 ; Sequence 4880, Application US/09815242
 ; Patent No. US2002061569A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Haselbeck, Robert
 ; APPLICANT: Ohlsen, Karl L.
 ; APPLICANT: Zyskind, Judith W.
 ; APPLICANT: Wall, Daniel
 ; APPLICANT: Trawick, John D.
 ; APPLICANT: Carr, Grant J.
 ; APPLICANT: Yamamoto, Robert T.
 ; APPLICANT: Xu, H. Howard
 ; TITLE OF INVENTION: Identification of Essential Genes in
 ; FILE REFERENCE: ELITRA 011A
 ; CURRENT APPLICATION NUMBER: US/09/815,242
 ; CURRENT FILING DATE: 2001-03-21
 ; PRIOR APPLICATION NUMBER: 60/191,078
 ; PRIOR FILING DATE: 2000-03-21
 ; PRIOR APPLICATION NUMBER: 60/206,848
 ; PRIOR FILING DATE: 2000-05-23
 ; PRIOR APPLICATION NUMBER: 60/207,727
 ; PRIOR FILING DATE: 2000-05-26
 ; PRIOR APPLICATION NUMBER: 60/242,578
 ; PRIOR FILING DATE: 2000-10-23
 ; PRIOR APPLICATION NUMBER: 60/253,625
 ; PRIOR FILING DATE: 2000-11-27
 ; PRIOR APPLICATION NUMBER: 60/257,931
 ; PRIOR FILING DATE: 2000-12-22
 ; PRIOR APPLICATION NUMBER: 60/269,308
 ; PRIOR FILING DATE: 2001-02-16
 ; NUMBER OF SEQ ID NOS: 14110
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 4880
 ; LENGTH: 254
 ; TYPE: PRT
 ; ORGANISM: Enterococcus faecalis
 US-09-815-242-4880

Query Match 48.6%; Score 35; DB 9; Length 254;
 Best Local Similarity 43.8%; Pred. No. 2.8e+02;
 Matches 7; Conservative 5; Mismatches 4; Indels 0; Gaps 0;

CY 1 VLTVIAOQTTSQGLIS 16
 Db 80 VLNSLSLPTSQGILA 95

Search completed: February 20, 2004, 14:34:11
 Job time : 2.2549 secs